















U.S. Patent Office



# INDEX OF PATENTS

RELATING TO

# ELECTRICITY,

EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1882, TO JULY 1, 1883.

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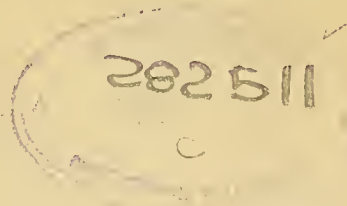
APPENDIX No. II.

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COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.

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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1883.





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## ADDENDA.

The following patents were omitted in the former indexes :

No.	NAME.	CLASS.	DATE.
7,992	Storm, W. M -----	Applications, tools and machines -----	Feb. 4, 1851
8,419	Robbins, Z. C -----	Insulators -----	Oct. 14, 1851
31,722	Lenoir, J. J. E -----	Applications, tools and machines -----	Mar. 19, 1861
34,623	Colvin, L. O. and Gardner, G. H -----	Telegraphs -----	Mar. 11, 1862
58,562	Bolton, F. I -----	do -----	Oct. 2, 1866
61,390	Boynton, J. F -----	Insulators -----	Jan. 22, 1867
63,416	Million, F -----	Applications, tools and machines -----	Apr. 2, 1867
74,815	Funston, A. C -----	Applications, general -----	Feb. 25, 1868
88,767	Atwater, J. B -----	Applications, tools and machines -----	Apr. 13, 1869
140,021	Errani, L. C. and Anders, R -----	do -----	June 17, 1873
147,684	Piaget, F. H -----	Recorders -----	Feb. 17, 1874
153,510	Wolcott, C. C -----	Applications, tools and machines -----	July 28, 1874
159,079	Carobbi, C. and Bellini, G -----	do -----	Jan. 26, 1875
160,130	Vera, P -----	do -----	Feb. 23, 1875
246,411	Munson, J. E -----	do -----	Aug. 30, 1881

NOTE.—The following new sub-classes have been added:

74.—BATTERIES, SECONDARY, APPLICATIONS:

Devices for controlling the charging and for utilizing the discharge of secondary batteries.

75.—LOCOMOTION:

Apparatus for propelling vehicles by means of electric motors.

76.—MAGNETO-ELECTRIC, HAND-MACHINES:

Including small dynamic generators for blasting, signaling and medical purposes.

77.—TELEPHONIC TELEGRAPHS, RELAYS AND REPEATERS:

Devices for automatically transferring telephonic signals from one circuit to another.

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## APPENDIX NO. II.

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### PART I.

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CONSISTING OF A

## SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

## ELECTRICITY

Issued from July 1, 1882, to July 1, 1883, giving names of Inventors and dates  
and numbers of Patents in each sub-class in numerical  
and chronological order.

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# CLASSIFIED INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1882, TO JULY 1, 1883.

### 1. ALARMS.

No.	NAME.	DATE.	No.	NAME.	DATE.
265,364	Ashcroft, E. H.-----	Oct. 3, 1882	267,825	Bell, T. J.-----	Nov. 21, 1882
265,365	Ashcroft, E. H.-----	Oct. 3, 1882	269,273	Evans, C. A.-----	Dec. 19, 1882
265,776	Edison, T. A.-----	Oct. 10, 1882	276,286	Rhodes, T. H.-----	Apr. 24, 1883
266,506	Osborne, E. F.-----	Oct. 24, 1882			

### 2. ALARMS.—BURGLAR.

260,536	Chinnock, C. E.-----	July 4, 1882	269,862	Jackson, C. T.-----	Jan. 2, 1883
262,393	Freeman, J. P.-----	Aug. 8, 1882	271,131	Ruebel, C. A. E.-----	Jan. 23, 1883
263,947	Neumeyer, H. F.-----	Sept. 5, 1882	279,193	Shoupe, W. S. and Buskirk, T.-----	June 12, 1883
267,987	Ruebel, C. A. E.-----	Nov. 21, 1882	279,483	Fisher, W. C.-----	June 12, 1883

### 3. ANNUNCIATORS.

263,491	Dent, W.-----	Aug. 29, 1882	273,563	Mackenzie, J. U.-----	Mar. 6, 1883
266,405	Warner, J. C.-----	Oct. 24, 1882	276,465	Provoost, J. M.-----	Apr. 24, 1883
267,807	Tanner, F.-----	Nov. 21, 1882	276,739	Weaver, G. L.-----	May 1, 1883
271,707	Hess, A. T.-----	Feb. 6, 1883	279,946	Hazlett, F. B.-----	June 26, 1883
273,033	Crane, M. G.-----	Feb. 27, 1883			

### 4. APPLICATIONS.—GENERAL.

262,054	Kitsee, I.-----	Aug. 1, 1882	271,991	Rosebrook, F.-----	Feb. 6, 1883
262,055	Kitsee, I.-----	Aug. 1, 1882	273,208	Wheeler, S. S.-----	Feb. 27, 1883
262,056	Kitsee, I.-----	Aug. 1, 1882	273,622	Smith, A. T.-----	Mar. 6, 1883
262,057	Kitsee, I.-----	Aug. 1, 1882	274,852	Thurber, E. S.-----	Mar. 27, 1883
264,258	Dimmick, O. J.-----	Sept. 12, 1882	274,882	Brown, F. H.-----	Mar. 27, 1883
264,523	Flatow, S. J.-----	Sept. 19, 1882	276,451	Monfort, E. A.-----	Apr. 24, 1883
265,344	Stitzel, F.-----	Oct. 3, 1882	277,945	Rosquist, G.-----	May 22, 1883
267,684	Fowler, A.-----	Nov. 21, 1882	278,565	Lembeke, R.-----	May 29, 1883
267,685	Fowler, A.-----	Nov. 21, 1882	279,322	Brainerd, C. A.-----	June 12, 1883
268,908	Kitsee, I.-----	Dec. 12, 1882	279,574	Leaycraft, E. S.-----	June 19, 1883
269,082	McCollom, W. J.-----	Dec. 12, 1882	279,878	Muybridge, E. J.-----	June 19, 1883
269,439	McEvoy, C. A.-----	Dec. 19, 1882			

### 5. APPLICATIONS.—TOOLS AND MACHINES.

261,286	Willard, S. W.-----	July 18, 1882	272,187	Ball, C. E.-----	Feb. 13, 1883
261,560	Mäyrhofer, C. A.-----	July 25, 1882	272,355	Tomlinson, B. W. and Balch, A.-----	Feb. 13, 1883
265,448	Sawyer, W. E.-----	Oct. 3, 1882	10,290	Parker, L. C.----- (Reis.)	Feb. 20, 1883
266,107	Curtiss, R. M.-----	Oct. 17, 1882	273,269	Frost, E. J.-----	Mar. 6, 1883
267,458	Rider, A. K.-----	Nov. 14, 1882	274,257	Bawsel, E. E.-----	Mar. 20, 1883
269,813	Parker, L. C.-----	Dec. 26, 1882	275,039	Gunther, G. A.-----	Apr. 3, 1883
270,000	Beesley, T.-----	Jan. 2, 1883	275,179	Field, S. D.-----	Apr. 3, 1883
272,130	Etève, E. and Lallement, C. C.-----	Feb. 13, 1883	277,087	Varley, C. F.-----	May 8, 1883
272,144	McGinnis, W. T.-----	Feb. 13, 1883	279,524	Beaty, M.-----	June 19, 1883

## 6. BATTERIES.—GALVANIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
260,859	Friedel, C.-----	July 11, 1882	271,299	Barrett, J. A.-----	Jan. 30, 1883
263,651	Buell, C. E.-----	Aug. 29, 1882	271,992	Rosebrugh, A. M.-----	Feb. 6, 1883
264,096	McIntosh, L. D.-----	Sept. 12, 1882	272,058	Kauffer, T. L. and Serson, J.-----	Feb. 13, 1883
264,304	Kinsman, F. E.-----	Sept. 12, 1882	272,493	Stebbins, J. M.-----	Feb. 20, 1883
264,618	Brown, A.-----	Sept. 19, 1882	273,598	Platt, W. S.-----	Mar. 6, 1883
266,129	Gibbs, C.-----	Oct. 17, 1882	273,739	Jablochkoff, P.-----	Mar. 13, 1883
266,798	Faure, C. A.-----	Oct. 31, 1882	273,751	McIntosh, L. D.-----	Mar. 13, 1883
267,319	Bernstein, A.-----	Nov. 14, 1882	274,110	De Lalande, F. and Chaperon, G.-----	Mar. 20, 1883
267,577	O'Harra, G. W.-----	Nov. 14, 1882	274,899	Blackall, B. F. and Decker, J. C.-----	Apr. 3, 1883
269,179	Cointepas, E. M.-----	Dec. 19, 1882	275,797	Alexander, W. A.-----	Apr. 17, 1883
269,454	Parkhurst, C. D.-----	Dec. 19, 1882	275,845	Odell, J. B.-----	Apr. 17, 1883
270,551	Mackenzie, J.-----	Jan. 9, 1883	279,872	Kauffer, T. L. and Serson, J.-----	June 19, 1883
270,702	Scrivanow, G.-----	Jan. 16, 1883			

## 72. BATTERIES.—SECONDARY.

260,653	Brush, C. F.-----	July 4, 1882	271,628	Haid, A.-----	Feb. 6, 1883
260,654	Brush, C. F.-----	July 4, 1882	271,732	Nézeraux, C. P.-----	Feb. 6, 1883
261,435	Cuttriss, C.-----	July 18, 1882	271,880	Maloney, J. A.-----	Feb. 6, 1883
261,512	Brush, C. F.-----	July 18, 1882	273,492	Edison, T. A.-----	Mar. 6, 1883
261,995	Brush, C. F.-----	Aug. 1, 1882	273,855	Keith, N. S.-----	Mar. 13, 1883
262,533	Brush, C. F.-----	Aug. 8, 1882	274,082	Brush, C. F.-----	Mar. 13, 1883
263,124	De Kabath, N.-----	Aug. 22, 1882	274,292	Edison, T. A.-----	Mar. 20, 1883
263,756	Brush, C. F.-----	Sept. 5, 1882	274,373	Pitkin, J.-----	Mar. 20, 1883
264,211	Brush, C. F.-----	Sept. 12, 1882	274,802	Martin, A. J.-----	Mar. 27, 1883
265,861	Pitkin, J.-----	Oct. 10, 1882	274,865	Wallace, S. J.-----	Mar. 27, 1883
266,089	Brush, C. F.-----	Oct. 17, 1882	274,905	Brush, C. F.-----	Apr. 3, 1883
266,090	Brush, C. F.-----	Oct. 17, 1882	275,985	Brush, C. F.-----	Apr. 17, 1883
266,114	Eaton, A. K.-----	Oct. 17, 1882	275,986	Brush, C. F.-----	Apr. 17, 1883
266,115	Eaton, A. K.-----	Oct. 17, 1882	276,099	Van Depoele, C. J.-----	Apr. 17, 1883
266,172	Maloney, J. A. and Koyl, C. H.-----	Oct. 17, 1882	276,155	Brush, C. F.-----	Apr. 24, 1883
266,262	Shaw, W. A.-----	Oct. 17, 1882	276,300	Starr, E. T. and E. E.-----	Apr. 24, 1883
266,762	Brush, C. F.-----	Oct. 31, 1882	276,301	Starr, E. T. and E. E.-----	Apr. 24, 1883
267,137	Blanchard, V. W.-----	Nov. 7, 1882	276,348	Brush, C. F.-----	Apr. 24, 1883
267,275	Starr, E. T.-----	Nov. 7, 1882	276,974	Koyl, C. H.-----	May 1, 1883
267,804	Starr, E. T.-----	Nov. 21, 1882	277,394	Whitney, E. R.-----	May 8, 1883
267,860	Finney, J. R.-----	Nov. 21, 1882	277,445	Boettcher, E.-----	May 15, 1883
268,174	Blanchard, V. W.-----	Nov. 28, 1882	278,638	Wallace, W.-----	May 29, 1883
268,308	Starr, E. T. and E. E.-----	Nov. 28, 1882	279,046	Tomkins, C. T.-----	June 5, 1883
268,360	Eaton, A. K.-----	Nov. 28, 1882	279,346	Cookson, N. C.-----	June 12, 1883
270,778	Freeman, W. K.-----	Jan. 16, 1883	279,400	Koyl, C. H.-----	June 12, 1883
270,884	Berliner, E.-----	Jan. 23, 1883	279,839	Starr, E. T.-----	June 19, 1883

## 74. BATTERIES—SECONDARY.—APPLICATIONS.

260,624	Starr, E. T. and Peyton, W. J.-----	July 4, 1882	268,175	Blanchard, V. W.-----	Nov. 28, 1882
261,303	Buell, C. E.-----	July 18, 1882	269,092	Molera, E. J.-----	Dec. 12, 1882
261,490	Starr, E. T. and Peyton, W. J.-----	July 18, 1882	269,476	Starr, E. T.-----	Dec. 19, 1882
261,513	Buell, C. E.-----	July 18, 1882	270,500	Stearns, J. M., jr.-----	Jan. 9, 1883
264,952	Maxim, H. S.-----	Sept. 26, 1882	270,734	Buell, C. E.-----	Jan. 16, 1883
265,340	Puffer, S. M.-----	Oct. 3, 1882	270,735	Buell, C. E.-----	Jan. 16, 1883

## 73. BATTERIES.—THERMAL.

262,110	Patterson, A.-----	Aug. 1, 1882	262,111	Patterson, A.-----	Aug. 1, 1882
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## 7. BELLS.

261,172	Porter, H. B.-----	July 18, 1882	268,448	Baldwin, J. S.-----	Dec. 5, 1882
264,109	Scribner, C. E.-----	Sept. 12, 1882	274,573	De Redon, C. F.-----	Mar. 27, 1883

## 8. BOAT-STEERING.

274,067	Weeks, A.-----				Mar. 13, 1883
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## 9. CAR-BRAKES.

No.	NAME.	DATE.	No.	NAME.	DATE.
264,475	Paul, G. D. and Kampfe, F. A.	Sept. 19, 1882	274,023	Park, H. S.	Mar. 13, 1883
265,023	Conover, P. V.	Sept. 26, 1882	276,935	Torrey, D.	May 1, 1883
270,248	Parsons, A. S.	Jan. 9, 1883	276,936	Torrey, D.	May 1, 1883
271,721	Low, J. B.	Feb. 6, 1883	276,938	Torrey, D.	May 1, 1883
273,565	Macpherson, D. J.	Mar. 6, 1883			

## 10. CIRCUIT-CLOSERS.

267,287	Waldo, L.	Nov. 7, 1882	279,107	Rousseau, D.	June 5, 1883
271,560	Willson, R. W.	Jan. 30, 1883	279,634	Bogart, A. L.	June 19, 1883
279,023	Sawyer, W. H.	June 5, 1883			

## 11. CLOCKS.

260,751	Gullberg, C.	July 11, 1882	274,323	Himmer, V.	Mar. 20, 1883
267,298	Willson, R. W.	Nov. 7, 1882	274,324	Himmer, V.	Mar. 20, 1883
267,299	Willson, R. W.	Nov. 7, 1882	274,325	Himmer, V.	Mar. 20, 1883
267,300	Willson, R. W.	Nov. 7, 1882	274,445	Gray, A. W.	Mar. 20, 1883
270,058	Hamblet, J.	Jan. 2, 1883	275,701	Popp, V.	Apr. 10, 1883
270,533	Willson, R. W.	Jan. 9, 1883	277,104	Ballou, G. F.	May 8, 1883
270,639	Conklin, J. L., jr.	Jan. 16, 1883	278,159	Mäyrhofer, C. A.	May 22, 1883
271,947	Mautner, L.	Jan. 30, 1883	278,357	Oram, J. M.	May 29, 1883
272,100	Sweet, D. F.	Feb. 13, 1883	278,846	Bailey, H. L.	June 5, 1883
273,231	Happersberger, J.	Feb. 27, 1883	278,946	Happersberger, J.	June 5, 1883
273,634	Sweet, D. F.	Mar. 6, 1883			

## 12. CONDENSERS.

260,646	Borden, S.				July 4, 1882
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## 13. CONDUCTORS.

262,027	Farrell, J.	Aug. 1, 1882	273,593	Patterson, W. R.	Mar. 6, 1883
262,028	Farrell, J.	Aug. 1, 1882	274,562	Chinnock, C. E.	Mar. 27, 1883
262,029	Farrell, J.	Aug. 1, 1882	274,622	Martin, J. F.	Mar. 27, 1883
264,821	Callender, W. O.	Sept. 19, 1882	274,699	Barker, G. F.	Mar. 27, 1883
265,130	Nichols, J. V.	Sept. 26, 1882	274,845	Thompson, F. H.	Mar. 27, 1883
265,720	Trott, S. and Kingsford, H.	Oct. 10, 1882	275,123	Blumenberg, I. R.	Apr. 3, 1883
266,353	Delany, P. B.	Oct. 24, 1882	275,399	Martin, J. F.	Apr. 10, 1883
267,044	Waring, R. S. and Hyde, J. B.	Nov. 7, 1882	275,407	Phillips, W. J. and Kitson, G. L.	Apr. 10, 1883
267,045	Waring, R. S. and Hyde, J. B.	Nov. 7, 1882	275,408	Phillips, W. J. and Kitson, G. L.	Apr. 10, 1883
267,046	Waring, R. S.	Nov. 7, 1882	275,422	Shelbourne, S. F.	Apr. 10, 1883
267,278	Strohm, S. D.	Nov. 7, 1882	275,748	Bergmann, S.	Apr. 10, 1883
267,279	Strohm, S. D.	Nov. 7, 1882	275,859	Robertson, J.	Apr. 17, 1883
267,597	Sawyer, W. H.	Nov. 14, 1882	276,724	Smith, J. J. C.	May 1, 1883
267,609	Slafter, C. J.	Nov. 14, 1882	276,725	Smith, J. J. C.	May 1, 1883
268,034	Mackay, M.	Nov. 28, 1882	276,880	Reed, T. S.	May 1, 1883
268,060	Waring, R. S.	Nov. 28, 1882	276,891	Sanderson, J. G.	May 1, 1883
268,157	Waring, R. S.	Nov. 28, 1882	276,916	Smith, W.	May 1, 1883
268,159	Waring, R. S.	Nov. 28, 1882	277,089	Weiller, L.	May 8, 1883
268,324	Waring, R. S.	Nov. 28, 1882	277,248	Edgerton, N. H.	May 8, 1883
268,478	Fitch, F. K.	Dec. 5, 1882	277,366	Smith, W.	May 8, 1883
269,328	Sawyer, W. H.	Dec. 19, 1882	277,519	Smith, J. J. C.	May 15, 1883
269,470	Sawyer, W. H.	Dec. 19, 1882	277,528	Wright, A.	May 15, 1883
269,735	Speicher, J.	Dec. 26, 1882	277,765	McKenney, A.	May 15, 1883
269,868	Mackintosh, J.	Jan. 2, 1883	278,009	Halkyard, W.	May 22, 1883
270,438	Jacques, W. W.	Jan. 9, 1883	278,233	Goodridge, J. C., jr.	May 22, 1883
271,262	Patterson, W. R.	Jan. 30, 1883	278,277	Root, H. C. and Reilly, J. C.	May 22, 1883
271,548	Trott, S. and Hamilton, F. A.	Jan. 30, 1883	278,289	Strohm, S. D.	May 22, 1883
271,750	Thomas, J. D.	Feb. 6, 1883	278,536	Greives, J.	May 29, 1883
271,832	Gardner, P. G., jr., Le Roy, J. W. and Tinker, G. K.	Feb. 6, 1883	278,635	Townsend, W. E., jr.	May 29, 1883
			278,753	Smyth, T. A.	June 5, 1883
271,994	Steward, D. M.	Feb. 6, 1883	278,811	McIntire, C.	June 5, 1883
272,441	Hunter, R. M.	Feb. 20, 1883	278,885	Cottrell, J. O.	June 5, 1883
272,659	Cowles, A. A.	Feb. 20, 1883	278,886	Cottrell, J. O.	June 5, 1883
272,660	Cowles, A. A.	Feb. 20, 1883	278,968	Huck, C.	June 5, 1883
272,774	Rittenhouse, N. M.	Feb. 20, 1883	279,189	Rogers, J. W.	June 12, 1883
272,792	Strohm, S. D.	Feb. 20, 1883	279,289	Vail, T. N.	June 12, 1883
273,494	Edison, T. A.	Mar. 6, 1883			

## 14. CONNECTORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
264,298	Johnson, E. H.-----	Sept. 12, 1882	273,648	Warner, J. C.-----	Mar. 6, 1883
265,746	Brewtnall, A. W.-----	Oct. 10, 1882	275,180	Field, S. D.-----	Apr. 3, 1883
270,478	Pumphrey, H. F.-----	Jan. 9, 1883	278,097	Collins, C.-----	May 22, 1883
271,825	Fiske, H. G.-----	Feb. 6, 1883	278,346	Long, H. E.-----	May 29, 1883
272,524	Brott, G.-----	Feb. 20, 1883	279,274	Patterson, W. R.-----	June 12, 1883
273,259	Coolidge, E. C.-----	Mar. 6, 1883	279,557	Flint, E., jr.-----	June 19, 1883
273,429	Allen, P. R.-----	Mar. 6, 1883			

## 15. DENTAL INSTRUMENTS.

270,187	Finney, J. R.-----	Jan. 2, 1883
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## 20. ELECTROLYSIS.

264,927	Cassel, H. R.-----	Sept. 26, 1882	273,324	Thomas, J. M.-----	Mar. 6, 1883
264,928	Cassel, H. R.-----	Sept. 26, 1882	273,467	Classen, A.-----	Mar. 6, 1883
267,816	Zalinski, E. L.-----	Nov. 21, 1882	276,777	Cocheu, N. L.-----	May 1, 1883

## 21. ELECTRO-MAGNETS.

267,138	Blanchard, V. W.-----	Nov. 7, 1882
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## 23. FRICTION-GENERATORS.

261,118	Benjamin, E. B.-----	July 11, 1882	275,347	Atkinson, P.-----	Apr. 10, 1883
266,467	Guerin, E.-----	Oct. 24, 1882			

## 24. GAS-LIGHTING.

260,804	Tirrell, J. P.-----	July 11, 1882	266,210	Schooley, W. D.-----	Oct. 17, 1882
260,805	Tirrell, J. P.-----	July 11, 1882	271,805	Crockett, C. H.-----	Feb. 6, 1883
260,806	Tirrell, J. P.-----	July 11, 1882	272,004	Warren, H. J.-----	Feb. 6, 1883
261,043	Rhodes, T. H.-----	July 11, 1882	276,285	Rhodes, T. H.-----	Apr. 24, 1883
261,677	Clarke, C. L. and Leigh, J.-----	July 25, 1882	277,053	Odell, J. B.-----	May 8, 1883
262,260	Tirrell, J. P.-----	Aug. 8, 1882	277,610	Rhodes, T. H.-----	May 15, 1883
263,457	Armstrong, O. S.-----	Aug. 29, 1882	278,898	Einbigler, R.-----	June 5, 1883

## 16. HEATERS.

264,819	Brown, F. M.-----	Sept. 19, 1882	276,840	Lieberman, A. and Robb, W.-----	May 1, 1883
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## 26. INDICATORS.

261,989	Blodgett, G. W. and A. D.-----	Aug. 1, 1882	272,724	Lowne, R. M.-----	Feb. 20, 1883
263,281	Blodgett, A. D. and G. W. and Tirrell, J. P.-----	Aug. 22, 1882	273,092	Jackson, A.-----	Feb. 27, 1883
263,939	Monnier, D.-----	Sept. 5, 1882	274,474	Fennerty, J. M.-----	Mar. 27, 1883
266,244	Weston, E.-----	Oct. 17, 1882	275,600	Cummings, C.-----	Apr. 10, 1883
267,437	Loughlin, J. F.-----	Nov. 14, 1882	277,179	Weston, E.-----	May 8, 1883

## 27. INDUCTION-COILS.

263,700	Hicks, T. H.-----	Sept. 5, 1882	269,794	Kidder, J.-----	Dec. 26, 1882
266,735	Van Depoele, C. J.-----	Oct. 31, 1882	273,643	Trouvelot, G. H. E.-----	Mar. 6, 1883

## 28. INSULATORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
262,210	Eckert, W. H. and E. A. and Seely, J. A.	Aug. 8, 1882	274,821	Reiff, W. H. -----	Mar. 27, 1883
263,075	Brown, G. M. -----	Nov. 28, 1882	276,839	Lewis, J. S. -----	May 1, 1883
269,933	Higgs, P. and Courtenay, W. --	Jan. 2, 1883	10,344	Steward, D. M. ----- (Reis.)	June 19, 1883
272,069	Mace, T. -----	Feb. 13, 1883	280,324	Noble, J. E. -----	June 26, 1883

## 29. KEYS.

260,449	Burn, T. -----	July 4, 1882	269,521	Hamilton, E. M. -----	Dec. 26, 1882
264,348	Shaw, T. -----	Sept. 12, 1882	270,652	Farren, W. D. -----	Jan. 16, 1883
267,878	Guthrie, J. T. -----	Nov. 21, 1882	270,767	Edwards, E. A. -----	Jan. 16, 1883
269,321	Prosch, C. -----	Dec. 19, 1882	275,433	Stevens, E. G. -----	Apr. 10, 1883

## 30. LIGHTNING-ARRESTERS.

262,423	Irwin, J. H. -----	Aug. 8, 1882	275,289	Thomson, E. -----	Apr. 3, 1883
262,949	Howard, C. T. -----	Aug. 22, 1882	275,290	Thomson, E. -----	Apr. 3, 1883
263,554	McCabe, B., Swain, C. R. and Sutton, J. T.	Aug. 29, 1882	279,712	Connolly, M. D. -----	June 19, 1883
			279,713	Connolly, M. D. and T. A. -----	June 19, 1883
272,867	Dyer, J. W. -----	Feb. 27, 1883	279,714	Connolly, M. D. -----	June 19, 1883
273,049	Finn, J. L. -----	Feb. 27, 1883	279,715	Connolly, M. D. -----	June 19, 1883

## 31. LIGHTNING-RODS.

263,423	Munn, W. B. -----	Aug. 29, 1882	271,733	Patee, T. H. and Ridge, T. D. --	Feb. 6, 1883
266,075	Ball, C. E. -----	Oct. 17, 1882	273,179	Spang, H. W. -----	Feb. 27, 1883
269,018	Crowell, E. and Dawson, E. C. --	Dec. 12, 1882	274,564	Coon, J. H. -----	Mar. 27, 1883
270,379	Brandon, J. H. -----	Jan. 9, 1883	278,028	Lobdell, A. C. -----	May 22, 1883
271,029	Brown, W. -----	Jan. 23, 1883			

## 17. LIGHTS.—ARC.

260,647	Borden, S. -----	July 4, 1882	265,049	Finney, J. R. -----	Sept. 26, 1882
260,925	Ball, C. E. -----	July 11, 1882	265,050	Finney, J. R. and Campbell, L. --	Sept. 26, 1882
260,975	Guest, J. H. -----	July 11, 1882	265,670	Guest, J. H. -----	Oct. 10, 1882
261,067	Thomson, E. -----	July 11, 1882	265,737	Beardslee, G. W. -----	Oct. 10, 1882
261,091	Haskins, C. D. -----	July 11, 1882	265,775	Edison, T. A. -----	Oct. 10, 1882
261,280	Van Depoele, C. J. -----	July 18, 1882	265,993	Thomson, E. -----	Oct. 17, 1882
261,289	Wood, J. J. -----	July 18, 1882	266,161	Kartzmark, O. -----	Oct. 17, 1882
261,472	Müller, H. J. -----	July 18, 1882	266,236	Waterhouse, A. G. -----	Oct. 17, 1882
261,790	Thomson, E. -----	July 25, 1882	266,240	Weston, E. -----	Oct. 17, 1882
261,815	Jenney, J. A. and C. D. -----	July 25, 1882	266,242	Weston, E. -----	Oct. 17, 1882
261,904	Brooks, E. J. -----	Aug. 1, 1882	266,337	Andrews, J. D. F. -----	Oct. 24, 1882
262,015	De La Roche, C. F. -----	Aug. 1, 1882	266,363	Heinrichs, C. F. -----	Oct. 24, 1882
262,164	Watson, J. E. -----	Aug. 1, 1882	266,455	Freeman, W. P. -----	Oct. 24, 1882
262,165	Watson, J. E. -----	Aug. 1, 1882	266,739	Weston, E. -----	Oct. 31, 1882
262,333	Van Depoele, C. J. -----	Aug. 8, 1882	267,155	Cooley, C. A. -----	Nov. 7, 1882
262,718	Young, G. S. and Hatton, R. J. --	Aug. 15, 1882	267,474	Weston, E. -----	Nov. 14, 1882
263,138	Edison, T. A. -----	Aug. 22, 1882	267,553	McCarty, N. -----	Nov. 14, 1882
263,192	McCarty, N. -----	Aug. 22, 1882	267,691	Hussey, C. A. -----	Nov. 21, 1882
263,246	Thomas, W. M. -----	Aug. 22, 1882	268,038	McLaughlin, J. -----	Nov. 28, 1882
263,247	Thomas, W. M. -----	Aug. 22, 1882	268,155	Van Choate, S. F. -----	Nov. 28, 1882
263,296	Olmsted, J. -----	Aug. 22, 1882	268,218	Graham, A. -----	Nov. 28, 1882
263,404	Heisler, C. -----	Aug. 29, 1882	268,224	Harling, E. J. and Hartmann, E. --	Nov. 28, 1882
263,885	Fitch, F. K. -----	Sept. 5, 1882	268,254	Mather, R. H. -----	Nov. 28, 1882
263,938	Mondos, J. A. -----	Sept. 5, 1882	268,392	Edgerton, N. H. -----	Dec. 5, 1882
264,006	Weston, E. -----	Sept. 5, 1882	268,394	Finney, J. R. -----	Dec. 5, 1882
264,257	De La Roche, C. F. -----	Sept. 12, 1882	268,850	Ball, C. M. -----	Dec. 12, 1882
264,267	Fitch, F. K. -----	Sept. 12, 1882	268,851	Ball, C. M. -----	Dec. 12, 1882
264,269	Freeman, W. K. -----	Sept. 12, 1882	269,151	Woolley, L. G. -----	Dec. 12, 1882
264,270	Freeman, W. K. -----	Sept. 12, 1882	269,417	Holcombe, A. G. -----	Dec. 19, 1882
264,346	Sedlacek, H., Wikulill, F. and Schuckert, S.	Sept. 12, 1882	269,453	Parker, W. S. -----	Dec. 19, 1882
			269,938	Hussey, C. A. -----	Jan. 2, 1883
264,958	Olmsted, J. -----	Sept. 26, 1882	269,939	Hussey, C. A. -----	Jan. 2, 1883
264,978	Weston, E. -----	Sept. 26, 1882	270,361	Allen, P. R. -----	Jan. 9, 1883
264,984	Weston, E. -----	Sept. 26, 1882	270,449	Martin, S. and Richards, J. F. --	Jan. 9, 1883

## 17. LIGHTS.—ARC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
270,491	Seymour, H. A	Jan. 9, 1883	275,171	Edwards, E. A	Apr. 3, 1883
270,676	Hussey, C. A	Jan. 16, 1883	275,172	Edwards, E. A	Apr. 3, 1883
270,725	Beardslee, G. W	Jan. 16, 1883	275,173	Edwards, E. A	Apr. 3, 1883
270,806	Jobbins, W. F	Jan. 16, 1883	275,174	Edwards, E. A	Apr. 3, 1883
270,954	Jürgensen, C. P	Jan. 23, 1883	275,182	Finney, J. R	Apr. 3, 1883
271,059	Gifford, A. T	Jan. 23, 1883	275,183	Finney, J. R	Apr. 3, 1883
271,172	Weston, E	Jan. 23, 1883	275,345	Alleu, J. B	Apr. 10, 1883
271,173	Weston, E	Jan. 23, 1883	275,440	Turner, T. G	Apr. 10, 1883
271,395	Amet, E. H	Jan. 30, 1883	275,510	Murdock, G. J	Apr. 10, 1883
271,456	Hochhausen, W	Jan. 30, 1883	276,565	Daft, L	May 1, 1883
271,457	Hochhausen, W	Jan. 30, 1883	276,566	Daft, L	May 1, 1883
271,458	Hochhausen, W	Jan. 30, 1883	276,567	Daft, L	May 1, 1883
271,576	Finney, J. R	Jan. 30, 1883	276,702	Moses, O. A	May 1, 1883
271,816	Dudley, W. L. and Rapp, C. F	Feb. 6, 1883	276,703	Moses, O. A	May 1, 1883
272,017	Atwood, J. E	Feb. 13, 1883	276,704	Moses, O. A	May 1, 1883
272,262	Keith, N. S	Feb. 13, 1883	276,705	Moses, O. A	May 1, 1883
272,353	Thomson, E	Feb. 13, 1883	277,166	Shedlock, A	May 8, 1883
272,367	Weston, E	Feb. 13, 1883	277,167	Shedlock, A	May 8, 1883
272,811	Wetmore, J. A	Feb. 20, 1883	278,293	Thomas, W. M	May 22, 1883
272,920	Thomson, E	Feb. 27, 1883	278,304	Gravier, A. I	May 22, 1883
273,336	Allen, G. D	Mar. 6, 1883	278,679	Bosworth, C. B. and Swan, F. A	June 5, 1883
273,888	Piette, L. and Krizik, F	Mar. 13, 1883	278,832	Tihon, P	June 5, 1883
274,297	Elfering, J. H	Mar. 20, 1883	279,103	Olmsted, J	June 5, 1883
274,370	Perkins, C. G	Mar. 20, 1883	279,152	Guest, J. H	June 12, 1883
274,413	Thomson, E	Mar. 20, 1883	279,224	Chassé, J. G	June 12, 1883
274,744	Du Shane, J	Mar. 27, 1883	279,363	Edgerton, N. H	June 12, 1883
274,904	Brush, C. F	Apr. 3, 1883	279,472	Wood, J. J	June 12, 1883
274,916	Dalzell, J. A	Apr. 3, 1883	279,512	Wood, J. J	June 12, 1883
274,997	Van Choate, S. F	Apr. 3, 1883	279,517	Ansof, H	June 19, 1883
274,999	Waterhouse, F. G	Apr. 3, 1883	279,824	Sheehy, R. J	June 19, 1883
275,168	Edwards, E. A	Apr. 3, 1883	279,825	Sheehy, R. J	June 19, 1883
275,170	Edwards, E. A	Apr. 3, 1883	279,934	Giel, F. S	June 26, 1883

## 18. LIGHTS.—INCANDESCENT.

260,600	Müller, H. J	July 4, 1882	264,985	Weston, E	Sept. 26, 1882
260,864	Guest, J. H	July 11, 1882	264,986	Weston, E	Sept. 26, 1882
261,234	Jameson, J	July 18, 1882	264,987	Weston, E	Sept. 26, 1882
261,261	Seymour, H. A	July 18, 1882	264,988	Weston, E	Sept. 26, 1882
261,263	Seymour, H. A	July 18, 1882	265,311	Edison, T. A	Oct. 3, 1882
261,264	Seymour, H. A	July 18, 1882	265,315	Guest, J. H	Oct. 3, 1882
261,351	Irwin, J. H	July 18, 1882	265,410	Guest, J. H	Oct. 3, 1882
261,503	Voelker, W. L	July 18, 1882	265,475	Waters, S.	Oct. 3, 1882
261,741	Maxim, H. S	July 25, 1882	265,790	Farmer, M. G	Oct. 10, 1882
262,418	Irwin, J. H	Aug. 8, 1882	266,187	Nichols, J. V	Oct. 17, 1882
262,420	Irwin, J. H	Aug. 8, 1882	266,358	Goebel, H	Oct. 24, 1882
262,424	Irwin, J. H	Aug. 8, 1882	266,447	Edison, T. A	Oct. 24, 1882
262,470	Perkins, C. G	Aug. 8, 1882	266,741	Weston, E	Oct. 31, 1882
263,011	Bernstein, A	Aug. 22, 1882	267,647	Emmens, S. H	Nov. 14, 1882
263,135	Edison, T. A	Aug. 22, 1882	268,206	Edison, T. A	Nov. 28, 1882
263,139	Edison, T. A	Aug. 22, 1882	268,269	Nichols, J. V	Nov. 28, 1882
263,141	Edison, T. A	Aug. 22, 1882	268,270	Nichols, J. V	Nov. 28, 1882
263,144	Edison, T. A	Aug. 22, 1882	268,329	Weston, E	Nov. 28, 1882
263,145	Edison, T. A	Aug. 22, 1882	268,330	Weston, E	Nov. 28, 1882
263,257	Voelker, W. L	Aug. 22, 1882	269,132	Stanley, W., jr	Dec. 12, 1882
263,304	Betts, L. F	Aug. 29, 1882	269,239	Slattery, M. M. M	Dec. 19, 1882
263,621	Swan, A	Aug. 29, 1882	269,757	Weston, E	Dec. 26, 1882
263,801	Nichols, J. V	Sept. 5, 1882	269,759	Weston, E	Dec. 26, 1882
263,878	Edison, T. A	Sept. 5, 1882	271,140	Shaw, W. A	Jan. 23, 1883
264,328	Morton, A. W	Sept. 12, 1882	271,171	Weston, E	Jan. 23, 1883
264,517	Crookes, W	Sept. 19, 1882	271,302	Bernstein, A	Jan. 30, 1883
264,650	Edison, T. A	Sept. 19, 1882	271,613	Edison, T. A	Feb. 6, 1883
264,651	Edison, T. A	Sept. 19, 1882	272,125	Diehl, P	Feb. 13, 1883
264,652	Edison, T. A	Sept. 19, 1882	273,366	Kelso, J. S., jr	Mar. 6, 1883
264,653	Edison, T. A	Sept. 19, 1882	273,485	Edison, T. A	Mar. 6, 1883
264,654	Edison, T. A	Sept. 19, 1882	273,486	Edison, T. A	Mar. 6, 1883
264,655	Edison, T. A	Sept. 19, 1882	273,554	Lea, H	Mar. 6, 1883
264,656	Edison, T. A	Sept. 19, 1882	273,704	Bernstein, A	Mar. 13, 1883
264,657	Edison, T. A	Sept. 19, 1882	274,291	Edison, T. A	Mar. 20, 1883
264,698	Holzer, W	Sept. 19, 1882	274,293	Edison, T. A	Mar. 20, 1883
264,737	Mott, S. D	Sept. 19, 1882	274,294	Edison, T. A	Mar. 20, 1883
264,919	Barnes, R. F	Sept. 26, 1882	274,295	Edison, T. A	Mar. 20, 1883

## 18. LIGHTS.—INCANDESCENT.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
274,296	Edison, T. A -----	Mar. 20, 1883	276,924	Swan, A -----	May 1, 1883
274,427	Weston, E -----	Mar. 20, 1883	277,645	Weston, E -----	May 15, 1883
274,654	Perkins, C. G -----	Mar. 27, 1883	277,646	Weston, E -----	May 15, 1883
10,299	Weston, E ----- (Reis.)	Mar. 27, 1883	278,355	Molera, E. J. and Cebrian, J. C. -----	May 29, 1883
275,612	Edison, T. A -----	Apr. 10, 1883	278,415	Edison, T. A -----	May 29, 1883
275,613	Edison, T. A -----	Apr. 10, 1883	278,416	Edison, T. A -----	May 29, 1883
275,730	Swan, A -----	Apr. 10, 1883	278,417	Edison, T. A -----	May 29, 1883
276,133	Clingman, T. L -----	Apr. 17, 1883	279,811	Richter, C -----	June 19, 1883
276,571	Diehl, P -----	May 1, 1883	280,337	Thompson, R. H. S -----	June 26, 1883

## 19. LIGHTS.—SYSTEMS AND APPLIANCES.

260,562	Greenfield, E. T. and Bradley, C. S -----	July 4, 1882	266,303	Müller, H. J -----	Oct. 24, 1882
260,937	Candee, W. L -----	July 11, 1882	266,549	Stieringer, L -----	Oct. 24, 1882
261,077	Brush, C. F -----	July 11, 1882	266,550	Stieringer, L -----	Oct. 24, 1882
261,157	Hurlbut, D. N -----	July 18, 1882	266,588	Edison, T. A -----	Oct. 24, 1882
261,260	Seymour, H. A -----	July 18, 1882	266,703	Lockwood, J. E -----	Oct. 31, 1882
261,262	Seymour, H. A -----	July 18, 1882	266,793	Edison, T. A -----	Oct. 31, 1882
261,265	Seymour, H. A -----	July 18, 1882	266,808	Greenfield, E. T -----	Oct. 31, 1882
261,352	Irwin, J. H -----	July 18, 1882	266,969	Cheever, C. A. and Candee W. L. -----	Nov. 7, 1882
262,271	Bergmann, S -----	Aug. 8, 1882	267,115	Smith, C. D. F -----	Nov. 7, 1882
262,272	Bergmann, S -----	Aug. 8, 1882	269,013	Coleman, C. F. and Smith, H. A -----	Dec. 12, 1882
262,296	Johnston, R. A -----	Aug. 8, 1882	269,133	Stanley, W., jr -----	Dec. 12, 1882
262,417	Irwin, J. H -----	Aug. 8, 1882	269,139	Trenholm, W. L -----	Dec. 12, 1882
262,419	Irwin, J. H -----	Aug. 8, 1882	269,526	Jennings, C. C -----	Dec. 26, 1882
262,941	Fiske, H. G -----	Aug. 22, 1882	269,758	Weston, E -----	Dec. 26, 1882
263,103	Bergmann, S -----	Aug. 22, 1882	269,937	Hussey, C. A -----	Jan. 2, 1883
263,137	Edison, T. A -----	Aug. 22, 1882	271,739	Reed, A -----	Feb. 6, 1883
263,142	Edison, T. A -----	Aug. 22, 1882	272,169	Stieringer, L -----	Feb. 13, 1883
263,147	Edison, T. A -----	Aug. 22, 1882	274,150	Swan, F. A. and Bosworth, C. B -----	Mar. 20, 1883
263,622	Swan, A -----	Aug. 29, 1882	274,151	Swan, F. A. and Bosworth, C. B -----	Mar. 20, 1883
263,623	Swan, A -----	Aug. 29, 1882	274,181	Delany, P. B -----	Mar. 20, 1883
263,757	Brush, C. F -----	Sept. 5, 1882	274,290	Edison, T. A -----	Mar. 20, 1883
263,758	Brush, C. F -----	Sept. 5, 1882	274,653	Perkins, C. G -----	Mar. 27, 1883
263,827	Weston, E -----	Sept. 5, 1882	274,959	Murdock, G. J -----	Apr. 3, 1883
263,828	Weston, E -----	Sept. 5, 1882	275,749	Bergmann, S -----	Apr. 10, 1883
263,829	Weston, E -----	Sept. 5, 1882	276,328	Avery, E. M -----	Apr. 24, 1883
263,830	Weston, E -----	Sept. 5, 1882	276,982	Swan, A -----	May 1, 1883
264,042	Maxim, H. S -----	Sept. 5, 1882	277,168	Shedlock, A -----	May 8, 1883
264,299	Johnson, E. H -----	Sept. 12, 1882	277,377	Tacy, S. H -----	May 8, 1883
264,599	Allen, G. H -----	Sept. 19, 1882	277,536	Ball, F., jr -----	May 15, 1883
264,642	Edison, T. A -----	Sept. 19, 1882	277,641	Weston, E -----	May 15, 1883
264,645	Edison, T. A -----	Sept. 19, 1882	277,642	Weston, E -----	May 15, 1883
264,777	Sheehy, R. J -----	Sept. 19, 1882	277,643	Weston, E -----	May 15, 1883
264,951	Maxim, H. S -----	Sept. 26, 1882	277,846	Maxim, H. S -----	May 15, 1883
264,970	Swan, A -----	Sept. 26, 1882	277,869	Bausch, E -----	May 22, 1883
265,292	Wheeler, W -----	Oct. 3, 1882	278,465	Stieringer, L -----	May 29, 1883
265,777	Edison, T. A -----	Oct. 10, 1882	278,535	Greenfield, E. T -----	May 29, 1883
265,810	Hurlbut, D. N -----	Oct. 10, 1882	278,642	Weston, E -----	May 29, 1883
266,234	Waterhouse, A. G -----	Oct. 17, 1882	278,797	Ide, A. L -----	June 5, 1883
266,241	Weston, E -----	Oct. 17, 1882	279,422	O'Beirne, E. J -----	June 12, 1883

## 75. LOCOMOTION.

263,132	Edison, T. A -----	Aug. 22, 1882	271,042	Curtis, C. G. and Crocker, F. B. -----	Jan. 23, 1883
265,778	Edison, T. A -----	Oct. 10, 1882	273,489	Edison, T. A -----	Mar. 6, 1883
270,186	Finney, J. R -----	Jan. 2, 1883	273,490	Edison, T. A -----	Mar. 6, 1883
270,209	Dickerson, E. N., jr. and Curtis, C. G. -----	Jan. 9, 1883			

## 32. MAGNETIC-LOCKS.

262,093	Newbury, H. F -----	Aug. 1, 1882	271,271	Rhoades, L -----	Jan. 30, 1883
265,932	Newbury, H. F -----	Oct. 10, 1882	277,628	Sullivan, M -----	May 15, 1883

## 33. MAGNETO-ELECTRIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
260,480	Heisler, C.-----	July 4, 1882	268,980	Bain, F.-----	Dec. 12, 1882
260,541	Craig, J. A. I.-----	July 4, 1882	269,036	Fisher, A. B.-----	Dec. 12, 1882
260,652	Brush, C. F.-----	July 4, 1882	269,605	Thomson, E.-----	Dec. 26, 1882
261,129	Blair, J. B.-----	July 18, 1882	269,761	Weston, E.-----	Dec. 26, 1882
261,288	Wood, J. J.-----	July 18, 1882	270,017	Chertemps, A. and Danden, L.-----	Jan. 2, 1883
261,390	Schuyler, D. A.-----	July 18, 1882	270,230	Lewis, J.-----	Jan. 9, 1883
261,520	Ball, R. E.-----	July 25, 1882	270,325	McTighe, J. J. and T. J.-----	Jan. 9, 1883
261,712	Hochhausen, W.-----	July 25, 1882	270,457	Millar, A.-----	Jan. 9, 1883
261,850	Heikel, O.-----	Aug. 1, 1882	270,518	Vander Weyde, P. H.-----	Jan. 9, 1883
261,965	Sperry, E. A.-----	Aug. 1, 1882	270,777	Freeman, W. K.-----	Jan. 16, 1883
262,136	Sheridan, H. B.-----	Aug. 1, 1882	270,779	Freeman, W. P.-----	Jan. 16, 1883
262,422	Irwin, J. H.-----	Aug. 8, 1882	270,780	Freeman, W. P.-----	Jan. 16, 1883
262,529	Wood, J. J.-----	Aug. 8, 1882	270,781	Freeman, W. P.-----	Jan. 16, 1883
262,544	Jenney, J. A.-----	Aug. 8, 1882	271,169	Waterhouse, A. G.-----	Jan. 23, 1883
262,590	Heisler, C.-----	Aug. 15, 1882	271,928	Seeley, C. A.-----	Feb. 6, 1883
262,782	Irwin, J. H.-----	Aug. 15, 1882	271,947	Thomson, E.-----	Feb. 6, 1883
263,133	Edison, T. A.-----	Aug. 22, 1882	271,972	Baxter, W., jr.-----	Feb. 6, 1883
263,140	Edison, T. A.-----	Aug. 22, 1882	271,979	Gordon, E.-----	Feb. 6, 1883
263,143	Edison, T. A.-----	Aug. 22, 1882	272,256	Houston, E. J.-----	Feb. 13, 1883
263,146	Edison, T. A.-----	Aug. 22, 1882	272,366	Weston, E.-----	Feb. 13, 1883
263,148	Edison, T. A.-----	Aug. 22, 1882	273,406	Thomson, E.-----	Mar. 6, 1883
263,149	Edison, T. A.-----	Aug. 22, 1882	275,169	Edwards, E. A.-----	Apr. 3, 1883
263,150	Edison, T. A.-----	Aug. 22, 1882	275,237	Marcus, S.-----	Apr. 3, 1883
263,780	Haase, R. and Recker, J. P.-----	Sept. 5, 1882	275,392	Keegan, V. E.-----	Apr. 10, 1883
264,227	Beardslee, G. W.-----	Sept. 12, 1882	275,549	Van Depoele, C. J.-----	Apr. 10, 1883
264,228	Beardslee, G. W.-----	Sept. 12, 1882	276,063	Morava, W.-----	Apr. 17, 1883
264,229	Beardslee, G. W.-----	Sept. 12, 1882	276,194	Roberts, H.-----	Apr. 24, 1883
264,230	Beardslee, G. W.-----	Sept. 12, 1882	276,233	Edison, T. A.-----	Apr. 24, 1883
264,271	Freeman, W. K.-----	Sept. 12, 1882	276,274	Peck, C. C. and Chapman, W. H.-----	Apr. 24, 1883
264,431	Edison, T. A.-----	Sept. 19, 1882	276,275	Peck, C. C. and Chapman, W. H.-----	Apr. 24, 1883
264,646	Edison, T. A.-----	Sept. 19, 1882	276,390	Gravier, A. I.-----	Apr. 24, 1883
264,647	Edison, T. A.-----	Sept. 19, 1882	276,568	Daft, L.-----	May 1, 1883
264,648	Edison, T. A.-----	Sept. 19, 1882	277,069	Sceley, C. A.-----	May 8, 1883
264,649	Edison, T. A.-----	Sept. 19, 1882	277,119	Daft, L.-----	May 8, 1883
264,780	Siemens, E. W.-----	Sept. 19, 1882	277,237	Craig, J. A. I.-----	May 8, 1883
265,004	Beardslee, G. W.-----	Sept. 26, 1882	277,238	Craig, J. A. I.-----	May 8, 1883
265,595	Gilliland, J. F.-----	Oct. 10, 1882	277,644	Weston, E.-----	May 15, 1883
265,785	Edison, T. A.-----	Oct. 10, 1882	278,076	Ball, C. E.-----	May 22, 1883
265,786	Edison, T. A.-----	Oct. 10, 1882	278,119	Fuller, G. W.-----	May 22, 1883
265,853	Müller, H. J.-----	Oct. 10, 1882	278,120	Fuller, G. W.-----	May 22, 1883
265,936	Thomson, E.-----	Oct. 10, 1882	278,121	Fuller, G. W.-----	May 22, 1883
266,235	Waterhouse, A. G.-----	Oct. 17, 1882	278,122	Fuller, G. W.-----	May 22, 1883
266,243	Weston, E.-----	Oct. 17, 1882	278,418	Edison, T. A.-----	May 29, 1883
266,290	Hindley, R. C. and Buffham, W. S.-----	Oct. 24, 1882	278,419	Edison, T. A.-----	May 29, 1883
266,740	Weston, E.-----	Oct. 31, 1882	278,516	Delafield, A. F.-----	May 29, 1883
266,855	Mason, W. B.-----	Oct. 31, 1882	278,641	Weston, E.-----	May 29, 1883
266,993	Jablochhoff, P.-----	Nov. 7, 1882	278,983	Loryea, A. M. and Palmer, C. H.-----	May 29, 1883
267,136	Blanchard, V. W.-----	Nov. 7, 1882	279,362	Edgerton, N. H.-----	June 12, 1883
267,196	Harling, E. J. and Hartmann, E.-----	Nov. 7, 1882	279,399	Knowles, E. R. and Idell, F. E.-----	June 12, 1883
267,263	Scheefler, G. A.-----	Nov. 7, 1882	279,476	Ball, R. E.-----	June 12, 1883
268,099	Heikel, O.-----	Nov. 28, 1882	280,039	Hopkinson, J. and Muirhead, A.-----	June 26, 1883
268,205	Edison, T. A.-----	Nov. 28, 1882	280,288	Brown, F. M. and Bosworth, C. B.-----	June 26, 1883
268,255	Mather, R. H.-----	Nov. 28, 1882	280,301	Fisher, I.-----	June 26, 1883
268,331	Weston, E.-----	Nov. 28, 1882			

## 76. MAGNETO-ELECTRIC.—HAND-MACHINES.

269,225	Painter, W.-----	Dec. 19, 1882	274,074	Woodbury, C. J. H.-----	Mar. 13, 1883
270,945	Gilliland, E. T.-----	Jan. 23, 1883	276,024	Gilliland, J. F.-----	Apr. 17, 1883
272,234	Gilliland, E. T.-----	Feb. 13, 1883	276,136	Drawbaugh, D.-----	Apr. 17, 1883
273,714	Edison, T. A.-----	Mar. 13, 1883			

## 34. METERS.

265,774	Edison, T. A.-----	Oct. 10, 1882	277,731	Hopkinson, J.-----	May 15, 1883
267,445	Mott, S. D.-----	Nov. 14, 1882	279,371	Fox, St. G. L.-----	June 12, 1883
269,559	Bernstein, A.-----	Dec. 26, 1882			

## 35. MORSE REGISTERS.

No.	NAME.	DATE.	No.	NAME.	DATE.
265,789	Essick, S. V. -----	Oct. 10, 1882	267,967	Anderson, F. -----	Nov. 21, 1882
267,929	Pope, F. L. -----	Nov. 21, 1882	270,775	Foote, T. M. -----	Jan. 16, 1883

## 36. MOTORS.

260,408	Peck, C. C. and Chapman, W. H. -----	July 4, 1882	271,175	Wheeler, S. S., Curtis, C. G. and Crocker, F. B. -----	Jan. 23, 1883
260,574	Irwin, J. H. -----	July 4, 1882	271,502	Millar, A. -----	Jan. 30, 1883
263,353	Piot, D. T. -----	Aug. 29, 1882	271,904	Nicolaisen, E. -----	Feb. 6, 1883
264,272	Freeman, W. K. -----	Sept. 12, 1882	274,101	Atwater, J. B. -----	Mar. 20, 1883
264,848	Batley, J. -----	Sept. 26, 1882	277,475	Foster, G. W. -----	May 15, 1883
264,982	Weston, E. -----	Sept. 26, 1882	277,753	Logan, T. -----	May 15, 1883
264,983	Weston, E. -----	Sept. 26, 1882	278,760	Atwater, J. B. -----	June 5, 1883
266,377	Mac Kellar, A. D. -----	Oct. 24, 1882	279,007	Peck, C. C. and Chapman, W. H. -----	June 5, 1883
267,710	Peck, C. C. and Chapman, W. H. -----	Nov. 21, 1882	279,008	Peck, C. C. and Chapman, W. H. -----	June 5, 1883
269,281	Gramme, Z. T. -----	Dec. 19, 1882	279,036	Spang, H. W. -----	June 5, 1883
269,318	Peck, C. C. and Chapman, W. H. -----	Dec. 19, 1882	279,045	Thomas, W. M. -----	June 5, 1883
269,331	Schreiber, A. E. -----	Dec. 19, 1882	279,239	Grau, H. -----	June 12, 1883
269,888	Silvey, W. L. -----	Jan. 2, 1883			

## 38. RAILWAY-SIGNALS.

261,813	Emery, J. A. -----	July 25, 1882	273,514	Hadden, W. -----	Mar. 6, 1883
262,396	Gary, W. W. -----	Aug. 8, 1882	273,515	Hadden, W. -----	Mar. 6, 1883
265,754	Chandler, J. -----	Oct. 10, 1882	273,516	Hadden, W. -----	Mar. 6, 1883
266,027	Gary, W. W. -----	Oct. 17, 1882	273,517	Hadden, W. -----	Mar. 6, 1883
266,297	Livermore, J. P. -----	Oct. 24, 1882	273,558	Livermore, J. P. -----	Mar. 6, 1883
266,904	Scott, C. A. -----	Oct. 31, 1882	273,639	Tisdale, C. D. -----	Mar. 6, 1883
266,957	Gassett, O. -----	Oct. 31, 1882	274,212	McLellan, W. W. -----	Mar. 20, 1883
267,195	Hanlon, G. O., J. P. A. and J. F. -----	Nov. 7, 1882	275,255	Nicholson, H. C. -----	Apr. 3, 1883
267,259	Robinson, W. -----	Nov. 7, 1882	275,599	Crandell, W. C., jr. -----	Apr. 10, 1883
267,978	Gassett, O. -----	Nov. 21, 1882	276,021	Gassett, O. -----	Apr. 17, 1883
267,979	Gassett, O. -----	Nov. 21, 1882	276,038	Hendrickson, S. C. -----	Apr. 17, 1883
270,305	Gray, J. -----	Jan. 9, 1883	276,138	Gassett, O. and Fisher, I. -----	Apr. 17, 1883
270,867	Westinghouse, G., jr. -----	Jan. 16, 1883	276,807	Hall, A. W. -----	May 1, 1883
272,099	Strack, C. F. -----	Feb. 13, 1883	276,904	Shaffer, W. C. -----	May 1, 1883
272,142	Le Grande, W. W. -----	Feb. 13, 1883	277,390	Weis, J. -----	May 8, 1883
272,276	Le Grande, W. W. -----	Feb. 13, 1883	277,990	Carlton, H. W. -----	May 22, 1883
272,464	Orcutt, E. L. -----	Feb. 20, 1883	278,940	Hadden, W. -----	June 5, 1883
272,839	Knight, J. K. and Baker, W. H. -----	Feb. 20, 1883	279,929	Farrington, DeW. C. -----	June 26, 1883
273,377	Means, C. J. -----	Mar. 6, 1883	280,046	Knapp, S. H. and Adams, A. E. -----	June 26, 1883
273,513	Hadden, W. -----	Mar. 6, 1883			

## 39. RECORDERS.

262,660	Gilliland, J. F. -----	Aug. 15, 1882	270,125	Richards, J. E. -----	Jan. 2, 1883
264,510	Bolton, O. -----	Sept. 19, 1882	273,351	Fillis, G. N. -----	Mar. 6, 1883
265,912	Adams, G. W. -----	Oct. 10, 1882	274,424	Webb, B. W. -----	Mar. 20, 1883
266,518	Ransom, G. F. -----	Oct. 24, 1882	278,777	Crowell, L. C. -----	June 5, 1883
267,062	Cowell, E. R. E. -----	Nov. 7, 1882	278,778	Crowell, L. C. -----	June 5, 1883
268,045	See, J. W. -----	Nov. 28, 1882	279,292	Waldorp, J. H. M. -----	June 12, 1883

## 40. REGULATORS.

260,575	Irwin, J. H. -----	July 4, 1882	264,660	Edison, T. A. -----	Sept. 19, 1882
260,623	Starr, E. T. -----	July 4, 1882	264,661	Edison, T. A. -----	Sept. 19, 1882
260,650	Brush, C. F. -----	July 4, 1882	264,662	Edison, T. A. -----	Sept. 19, 1882
260,651	Brush, C. F. -----	July 4, 1882	264,663	Edison, T. A. -----	Sept. 19, 1882
260,866	Haskins, C. D. and Lungren, C. M. -----	July 11, 1882	264,664	Edison, T. A. -----	Sept. 19, 1882
			264,665	Edison, T. A. -----	Sept. 19, 1882
262,421	Irwin, J. H. -----	Aug. 8, 1882	264,666	Edison, T. A. -----	Sept. 19, 1882
263,134	Edison, T. A. -----	Aug. 22, 1882	264,667	Edison, T. A. -----	Sept. 19, 1882
263,136	Edison, T. A. -----	Aug. 22, 1882	264,668	Edison, T. A. -----	Sept. 19, 1882
263,380	Baldwin, C. W. -----	Aug. 29, 1882	264,669	Edison, T. A. -----	Sept. 19, 1882
263,870	De Khotinsky, A. -----	Sept. 5, 1882	264,670	Edison, T. A. -----	Sept. 19, 1882
264,658	Edison, T. A. -----	Sept. 19, 1882	264,671	Edison, T. A. -----	Sept. 19, 1882
264,659	Edison, T. A. -----	Sept. 19, 1882	264,672	Edison, T. A. -----	Sept. 19, 1882

## 40. REGULATORS.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
264,673	Edison, T. A -----	Sept. 19, 1882	271,615	Edison, T. A -----	Feb. 6, 1883
264,979	Weston, E -----	Sept. 26, 1882	271,616	Edison, T. A -----	Feb. 6, 1883
264,980	Weston, E -----	Sept. 26, 1882	271,654	Ott, J. F -----	Feb. 6, 1883
264,981	Weston, E -----	Sept. 26, 1882	271,948	Thomson, E -----	Feb. 6, 1883
265,290	Tabourin, G. A -----	Oct. 3, 1882	272,362	Weston, E -----	Feb. 13, 1883
265,519	Langley, J. W -----	Oct. 3, 1882	272,363	Weston, E -----	Feb. 13, 1883
265,779	Edison, T. A -----	Oct. 10, 1882	272,364	Weston, E -----	Feb. 13, 1883
265,780	Edison, T. A -----	Oct. 10, 1882	272,365	Weston, E -----	Feb. 13, 1883
265,781	Edison, T. A -----	Oct. 10, 1882	272,799	Tucker, R. H -----	Feb. 20, 1883
265,782	Edison, T. A -----	Oct. 10, 1882	273,291	Levy, M -----	Mar. 6, 1883
265,783	Edison, T. A -----	Oct. 10, 1882	273,329	Weston, E -----	Mar. 6, 1883
265,784	Edison, T. A -----	Oct. 10, 1882	273,487	Edison, T. A -----	Mar. 6, 1883
265,858	Ott, J. F -----	Oct. 10, 1882	273,488	Edison, T. A -----	Mar. 6, 1883
265,859	Ott, J. F -----	Oct. 10, 1882	273,491	Edison, T. A -----	Mar. 6, 1883
265,937	Thomson, E -----	Oct. 10, 1882	273,493	Edison, T. A -----	Mar. 6, 1883
266,239	Weston, E -----	Oct. 17, 1882	274,371	Perkins, C. G -----	Mar. 20, 1883
267,446	Mott, S. D -----	Nov. 14, 1882	275,842	Molera, E. J. and Cebrian, J. C. -----	Apr. 17, 1883
267,859	Finney, J. R -----	Nov. 21, 1882	276,232	Edison, T. A -----	Apr. 24, 1883
268,523	Nesbitt, J -----	Dec. 5, 1882	276,569	Daft, L -----	May 1, 1883
268,956	Sperry, E. A -----	Dec. 12, 1882	278,413	Edison, T. A -----	May 29, 1883
269,606	Thomson, E -----	Dec. 26, 1882	278,414	Edison, T. A -----	May 29, 1883
269,805	Maxin, H. S -----	Dec. 26, 1882	278,640	Weston, E -----	May 29, 1883
270,352	Van Depoele, C. J -----	Jan. 9, 1883	279,826	Sheehy, R. J -----	June 19, 1883

## 41. RELAYS AND SOUNDERS.

263,419	McCullough, L. H -----	Aug. 29, 1882	272,210	Cochran, T -----	Feb. 13, 1883
265,485	Cochran, T -----	Oct. 3, 1882	273,264	Davis, W. E -----	Mar. 6, 1883
267,833	Bunnell, J. H -----	Nov. 21, 1882	273,728	Hamilton, E. M -----	Mar. 13, 1883
267,966	Anderson, F -----	Nov. 21, 1882	276,087	Smithers, J. P -----	Apr. 17, 1883

## 42. REPEATERS.

268,561	Smithers, J. P -----	Dec. 5, 1882	279,670	Smithers, J. P -----	June 19, 1883
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## 43. RHEOSTATS.

266,910	Starr, E. T -----	Oct. 31, 1882	269,760	Weston, E -----	Dec. 26, 1882
266,911	Starr, E. T -----	Oct. 31, 1882			

## 44. SEPARATORS.

262,790	King, J -----	Aug. 15, 1882	272,391	Thiollier, A -----	Feb. 13, 1883
263,131	Edison, T. A -----	Aug. 22, 1882	273,011	Barker, R -----	Feb. 27, 1883
263,913	Kellogg, A. B -----	Sept. 5, 1882	273,309	Rae, J -----	Mar. 6, 1883
264,620	Buchanan, C. G -----	Sept. 19, 1882	274,083	Cable, J. A -----	Mar. 13, 1883
266,841	Kenton, H -----	Oct. 31, 1882	276,997	Barker, R -----	May 8, 1883
271,906	Nolf, A. L -----	Feb. 6, 1883	278,976	Viger, J. La B -----	June 5, 1883

## 71. SWITCHES.

267,144	Brougham, R -----	Nov. 7, 1882	276,263	McLean, C. W -----	Apr. 24, 1883
267,711	Peck, C. C. and Chapman, W. H -----	Nov. 21, 1882	277,145	Lothrop, C. H -----	May 8, 1883
267,747	Gilliland, J. F -----	Nov. 21, 1882	277,640	Weston, E -----	May 15, 1883
274,452	Lowe, H -----	Mar. 20, 1883	278,353	McElroy, W. J -----	May 29, 1883
276,216	Blake, F -----	Apr. 24, 1883	278,881	Chapman, W. H -----	June 5, 1883

## 53. TELEGRAPH-POLES.

273,887	Petrequin, L -----				Mar. 13, 1883
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## 45. TELEGRAPHS.

No.	NAME.	DATE.	No.	NAME.	DATE.
261,410 261,595	Van Hoevenbergh, H ----- Anderson, J. and Smith, B.---	July 18, 1882 Aug. 1, 1882	279,327	Buell, C. E.-----	June 12, 1883

## 46. TELEGRAPHS.—AUTOMATIC.

261,975 265,210 265,212 265,297	Absterdam, J.----- Anderson, F.----- Anderson, F.----- Anderson, F.-----	Aug. 1, 1882 Sept. 26, 1882 Sept. 26, 1882 Oct. 3, 1882	265,358 274,652 275,339 277,349	Anderson, F.----- Perez, P. E.----- Johnson, A. F. and F. B.----- Rogers, J. H.-----	Oct. 3, 1882 Mar. 27, 1883 Apr. 3, 1883 May 8, 1883
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## 47. TELEGRAPHS.—DIAL.

266,987	Gisborne, J. S.-----	Nov. 7, 1882
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## 48. TELEGRAPHS.—DUPLIX.

261,788 261,916 262,459 262,755 10,193	Thompson, B.----- Field, S. D.----- Mott, G. S.----- Field, S. D.----- D'Infreville, G.----- (Reis.)	July 25, 1882 Aug. 1, 1882 Aug. 8, 1882 Aug. 15, 1882 Sept. 5, 1882	264,372 268,317 274,112 275,334 280,028	Thompson, B.----- Thompson, B.----- D'Infreville, G.----- Fenn, J. E.----- Gardanier, G. W.-----	Sept. 12, 1882 Nov. 28, 1882 Mar. 20, 1883 Apr. 3, 1883 June 26, 1883
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## 49. TELEGRAPHS.—DYNAMO.

265,488 265,489	D'Infreville, G.----- D'Infreville, G.-----	Oct. 3, 1882 Oct. 3, 1882	274,417	Van Hoevenbergh, H.-----	Mar. 20, 1883
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## 50. TELEGRAPHS.—FIRE.

260,879 261,238 261,475 261,772 262,242 262,887 263,759 264,193 265,676 266,579 267,504 269,593	Kitsee, I.----- Kitsee, I.----- Neracher, W.----- Shaffer, W. C. and Plush, S. M.----- Palmer, A. C. and A. H.----- Buell, C. E.----- Buell, C. E.----- Palmer, A. H. and Rolfe, C. A.----- Kitsee, I.----- Buell, C. E.----- Dunn, J. P.----- Mäyrhofer, C. A.-----	July 11, 1882 July 18, 1882 July 18, 1882 July 25, 1882 Aug. 8, 1882 Aug. 15, 1882 Sept. 5, 1882 Sept. 12, 1882 Oct. 10, 1882 Oct. 24, 1882 Nov. 14, 1882 Dec. 26, 1882	270,236 271,597 271,598 271,783 272,803 273,374 275,005 275,006 275,752 277,020 279,629	Matthiessen, F. O.----- Bulen, G. F.----- Bulen, G. F.----- Buell, C. E.----- Vankeerberghen, V.----- Lockwood, T. D.----- Wood, F. B.----- Wood, F. B.----- Buell, C. E.----- Frese, B.----- Applegate, E. W.-----	Jan. 9, 1883 Feb. 6, 1883 Feb. 6, 1883 Feb. 6, 1883 Feb. 20, 1883 Mar. 6, 1883 Apr. 3, 1883 Apr. 3, 1883 Apr. 10, 1883 May 8, 1883 June 19, 1883
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## 51. TELEGRAPHS.—MULTIPLEX.

265,645	Thompson, B.-----	Oct. 10, 1882
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## 52. TELEGRAPHS.—PERFORATING.

265,209 265,211 265,213 266,592	Anderson, F.----- Anderson, F.----- Anderson, F.----- Johnson, A. F. and F. B.-----	Sept. 26, 1882 Sept. 26, 1882 Sept. 26, 1882 Oct. 24, 1882	266,593 270,213 270,774	Johnson, A. F. and F. B.----- Foote, T. M.----- Foote, T. M.-----	Oct. 24, 1882 Jan. 9, 1883 Jan. 16, 1883
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## 54. TELEGRAPHS.—PRINTING.

261,567 264,961 265,353 266,176	Schoettel, E. A.----- Plush, S. M. and Phelps, W. P.----- Wirsching, A.----- McCausland, W. J.-----	July 25, 1882 Sept. 26, 1882 Oct. 3, 1882 Oct. 17, 1882	267,366 268,237 269,634 270,907	Phelps, G. M.----- Johnson, A. F. and F. B.----- Burnside, W. J.----- McCausland, W. J.-----	Nov. 14, 1882 Nov. 28, 1882 Dec. 26, 1882 Jan. 23, 1883
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## 54. TELEGRAPHS.—PRINTING.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
273,810	Burnside, W. J -----	Mar. 13, 1883	279,550	Essick, S. V -----	June 19, 1883
274,300	Field, S. D -----	Mar. 20, 1883	279,729	Field, S. D -----	June 19, 1883
274,416	Van Hoevenbergh, H -----	Mar. 20, 1883	279,730	Field, S. D -----	June 19, 1883
274,665	Scott, G. B -----	Mar. 27, 1883	279,865	Field, S. D -----	June 19, 1883
274,748	Field, S. D -----	Mar. 27, 1883	280,077	Parks, J. A. and Sheffield, G. V -----	June 26, 1883

## 55. TELEGRAPHS.—QUADRUPLIX.

270,990	Selden, C -----	Jan. 23, 1883	275,185	Gardanier, G. W -----	Apr. 3, 1883
275,181	Field, S. D -----	Apr. 3, 1883			

## 56. TELEGRAPHS.—RAILWAY-CAR.

261,370	McGlashan, C. F -----	July 18, 1882	268,796	Hunt, W. L -----	Dec. 12, 1882
262,971	Moore, E. R -----	Aug. 22, 1882	270,674	Hunt, W. L -----	Jan. 16, 1883
265,756	Clark, J. P -----	Oct. 10, 1882	271,882	Marley, J. W -----	Feb. 6, 1883
265,757	Clark, J. P -----	Oct. 10, 1882	271,958	Waters, W. T -----	Feb. 6, 1883
266,806	Gilliland, E. T -----	Oct. 31, 1882	275,879	Bedinger, G. M., jr -----	Apr. 17, 1883
10,232	Finney, J. R ----- (Reis.)	Nov. 7, 1882	277,358	Shaw, F. A. and Judkins, H. E -----	May 8, 1883
268,476	Finney, J. R -----	Dec. 5, 1882	277,569	Hunter, R. M -----	May 15, 1883

## 57. TELEPHONIC TELEGRAPHS.—CALLS.

260,982	Howser, G. W -----	July 11, 1882	265,753	Cary, J. H -----	Oct. 10, 1882
262,063	Le Grande, W. W -----	Aug. 1, 1882	267,945	Southworth, H. W -----	Nov. 21, 1882
262,252	Southworth, H. W -----	Aug. 8, 1882	272,862	Currier, J. B -----	Feb. 27, 1883
264,843	Prentice, W. H. and Beckwith, S. H -----	Sept. 19, 1882	276,604	Lakin, J. A -----	May 1, 1883
265,454	Stabler, J. P -----	Oct. 3, 1882	276,960	Currier, J. B. and Rice, D. H -----	May 1, 1883
265,455	Stabler, J. P -----	Oct. 3, 1882	278,221	Cary, J. H -----	May 22, 1883
265,456	Stabler, J. P -----	Oct. 3, 1882	278,322	Dudley, W. J -----	May 29, 1883

## 58. TELEPHONIC TELEGRAPHS.—DETAILS.

261,511	Brown, C. W -----	July 18, 1882	271,903	Nichols, A. S -----	Feb. 6, 1883
263,336	Hartwell, O. D -----	Aug. 29, 1882			

## 59. TELEPHONIC TELEGRAPHS.—ELECTRIC.

260,488	Lytle, H. B -----	July 4, 1882	271,924	Schoettel, E. A -----	Feb. 6, 1883
262,285	Freeman, J. P -----	Aug. 8, 1882	272,034	Edison, T. A -----	Feb. 13, 1883
262,700	Scribner, C. E -----	Aug. 15, 1882	272,865	Drawbaugh, D. -----	Feb. 27, 1883
262,784	Jacques, W. W -----	Aug. 15, 1882	274,075	Woodworth, R. D -----	Mar. 13, 1883
10,183	Lockwood, R. M. and Bartlett, S. H ----- (Reis.)	Aug. 15, 1882	274,246	Ader, C. -----	Mar. 20, 1883
264,028	De Loch-Labye, L -----	Sept. 5, 1882	274,353	Maloney, J. A -----	Mar. 20, 1883
266,021	Edison, T. A -----	Oct. 17, 1882	274,576	Edison, T. A -----	Mar. 27, 1883
266,022	Edison, T. A -----	Oct. 17, 1882	274,577	Edison, T. A -----	Mar. 27, 1883
266,043	Milliken, G. F -----	Oct. 17, 1882	275,310	Wilson, E. L -----	Apr. 3, 1883
266,286	Haskins, C. D -----	Oct. 17, 1882	276,137	Drawbaugh, D. -----	Apr. 17, 1883
266,292	Jacobson, L -----	Oct. 24, 1882	276,630	Robertson, J. H -----	May 1, 1883
266,615	Drawbaugh, D. -----	Oct. 24, 1882	276,631	Robertson, J. H -----	May 1, 1883
269,879	Porter, H. B -----	Oct. 31, 1882	276,632	Robertson, J. H -----	May 1, 1883
270,136	Shaw, G. E -----	Jan. 2, 1883	277,198	Baxter, M. L -----	May 8, 1883
270,752	Crawford, W. A -----	Jan. 2, 1883	278,026	Lakin, J. A -----	May 22, 1883
		Jan. 16, 1883	279,401	Lakin, J. A -----	June 12, 1883

## 60. TELEPHONIC TELEGRAPHS.—MAGNETIC.

262,811	Milliken, G. F -----	Aug. 15, 1882	266,747	Beedy, S. E -----	Oct. 31, 1882
262,921	Berliner, E. -----	Aug. 22, 1882	268,630	Dailey, G. F -----	Dec. 5, 1882
266,567	Watson, T. A -----	Oct. 24, 1882	269,657	Fitch, G. A -----	Dec. 26, 1882
266,746	Beedy, S. E -----	Oct. 31, 1882	269,884	Rogers, J. H -----	Jan. 2, 1883

## 60. TELEPHONIC TELEGRAPHS.—MAGNETIC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
271,188	Bartlett, S. H. and Waite, H. E.	Jan. 23, 1883	275,178	Field, S. D.	Apr. 3, 1883
271,878	Loring, C. T. and Pierce, G. W.	Feb. 6, 1883	276,723	Shaw, G. E.	May 1, 1883
272,329	Rose, A. W. and Cheever, C. A.	Feb. 13, 1883	277,112	Clay, H.	May 8, 1883
272,866	Drawbaugh, D.	Feb. 27, 1883	277,199	Baxter, M. L.	May 8, 1883
274,352	Maloney, J. A.	Mar. 20, 1883			

## 61. TELEPHONIC TELEGRAPHS.—MECHANICAL.

260,737	Beecher, L.	July 11, 1882	268,746	Stebbins, J. K.	Dec. 5, 1882
261,174	Quigley, W. D. G.	July 18, 1882	269,030	Egan, C.	Dec. 12, 1882
263,973	Shaw, F. R.	Sept. 5, 1882	270,848	Rosebrugh, A. M.	Jan. 10, 1883
265,412	Hathaway, W. E. and Johnston, W. B.	Oct. 3, 1882	271,324	Farrington, G. K. and H. C.	Jan. 30, 1883
266,515	Pond, C. L.	Oct. 24, 1882	273,079	Higgins, O. and W. S. and Grim, J.	Feb. 27, 1883
267,208	Huston, H. E.	Nov. 7, 1882	278,750	Shaver, G. F.	June 5, 1883
267,897	Johnson, H. T.	Nov. 21, 1882			

## 63. TELEPHONIC TELEGRAPHS.—REED.

262,105	Parcelle, A. L.	Aug. 1, 1882	262,106	Parcelle, A. L.	Aug. 1, 1882
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## 77. TELEPHONIC TELEGRAPHS.—RELAYS AND REPEATERS.

269,326	Rogers, J. H.				Dec. 19, 1882
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## 64. TELEPHONIC TELEGRAPHS.—SYSTEMS.

260,667	Coy, G. W.	July 4, 1882	266,853	Mann, L.	Oct. 31, 1882
260,883	Lockwood, T. D.	July 11, 1882	266,854	Mann, L.	Oct. 31, 1882
260,884	Lockwood, T. D.	July 11, 1882	267,058	Brennan, J. W.	Nov. 7, 1882
260,939	Chinnoek, C. E.	July 11, 1882	267,059	Brennan, J. W.	Nov. 7, 1882
261,186	Vail, T. N.	July 18, 1882	267,387	Watson, T. A.	Nov. 14, 1882
261,187	Vail, T. N.	July 18, 1882	267,790	Jackson, W. A. and Cole, W. R.	Nov. 21, 1882
261,969	Throop, C. E.	Aug. 1, 1882	267,905	Lartigue, H.	Nov. 21, 1882
262,059	Lane, T. W. and Harrington, F. W.	Aug. 1, 1882	268,294	Rogers, J. H.	Nov. 28, 1882
262,180	Hadley, A.	Aug. 1, 1882	268,359	Dudley, W. J.	Nov. 28, 1882
262,248	Salisbury, E. W.	Aug. 8, 1882	268,554	Shaw, F.	Dec. 5, 1882
262,261	Vaille, F. O.	Aug. 8, 1882	269,130	Snell, F. H.	Dec. 12, 1882
262,301	Mann, L.	Aug. 8, 1882	269,238	Shiras, J. O. and Eckert, E. A.	Dec. 19, 1882
262,532	Bartlett, S. H. and Waite, H. E.	Aug. 8, 1882	270,326	McTighe, T. J.	Jan. 9, 1883
262,645	Connolly, M. D. and T. A., and McTighe, T. J.	Aug. 15, 1882	270,522	Watson, T. A.	Jan. 9, 1883
262,646	Connolly, M. D.	Aug. 15, 1882	270,556	Randall, C. A.	Jan. 9, 1883
262,647	Connolly, M. D.	Aug. 15, 1882	271,279	Scribner, C. E.	Jan. 30, 1883
262,701	Scribner, C. E.	Aug. 15, 1882	271,280	Scribner, C. E.	Jan. 30, 1883
262,922	Berliner, E.	Aug. 22, 1882	271,513	Randall, C. A.	Jan. 30, 1883
263,524	Jacques, W. W.	Aug. 29, 1882	271,610	Dean, E. C.	Feb. 6, 1883
263,526	Jennison, C. R.	Aug. 29, 1882	271,913	Perrin, T. J.	Feb. 6, 1883
263,862	Connolly, M. D.	Sept. 5, 1882	271,914	Perrin, T. J.	Feb. 6, 1883
263,926	Lytle, H. B.	Sept. 5, 1882	272,505	Woelk, E. A.	Feb. 20, 1883
264,264	Dudley, W. J.	Sept. 12, 1882	274,552	Bawzel, E. E.	Mar. 27, 1883
264,631	Coy, G. W.	Sept. 19, 1882	274,602	Hibbard, A. S.	Mar. 27, 1883
265,028	Coy, G. W.	Sept. 26, 1882	274,857	Vail, T. N.	Mar. 27, 1883
265,092	Jepson, J.	Sept. 26, 1882	275,296	Vail, T. N.	Apr. 3, 1883
265,897	Watson, T. A.	Oct. 10, 1882	275,362	Coy, G. W.	Apr. 10, 1883
265,972	McKinney, W. D.	Oct. 17, 1882	275,420	Scribner, C. E.	Apr. 10, 1883
266,056	Shaver, G. F.	Oct. 17, 1882	275,611	Eckert, W. H., Seely, J. A. and Eckert, E. A.	Apr. 10, 1883
266,277	Eckert, W. H., Seely, J. A. and Eckert, E. A.	Oct. 24, 1882	276,184	Kinsman, F. E.	Apr. 24, 1883
266,287	Haskins, C. C. and Wilson, C. H.	Oct. 24, 1882	277,286	Humans, W.	May 8, 1883
266,295	Lewis, C. W.	Oct. 24, 1882	278,351	McCoy, J. A.	May 29, 1883
266,319	Scribner, C. E.	Oct. 24, 1882	278,367	Scribner, C. E.	May 29, 1883
266,320	Scribner, C. E.	Oct. 24, 1882	278,411	Dickson, C. T.	May 29, 1883
266,321	Scribner, C. E.	Oct. 24, 1882	278,494	Breckenridge, H. W.	May 29, 1883
266,344	Breckenridge, H. W. and Duxbury, J. W.	Oct. 24, 1882	278,613	Shaw, F. and Childs, W. A.	May 29, 1883
266,374	Lewis, C. W.	Oct. 24, 1882	279,471	Wilson, E. M.	June 12, 1883
266,750	Bergmann, S.	Oct. 31, 1882	279,747	Hamlin, E. B.	June 19, 1883
			280,116	Barnard, D. G.	June 26, 1883
			280,266	Watson, T. A.	June 26, 1883

## 65. THERAPEUTICS.—BATHS.

No.	NAME.	DATE.	No.	NAME.	DATE.
261,235	Karsbner, W. W -----	July 18, 1882	261,598	Goldberg, M -----	July 25, 1882

## 66. THERAPEUTICS.—BODY-WEAR.

272,904	Russell, C. S -----	Feb. 27, 1883	279,881	Palmer, G. E -----	June 19, 1883
276,078	Rittig, J -----	Apr. 17, 1883			

## 67. THERAPEUTICS.—ELECTRODES.

260,718	Weakley, J. W., jr -----	July 4, 1882	268,316	Tipton, A. W -----	Nov. 28, 1882
267,025	See, J. W -----	Nov. 7, 1882	279,315	Aronson, J. N -----	June 12, 1883

## 68. THERMOSTATS.

265,866	Reissig, W -----	Oct. 10, 1882	272,893	Martin, M -----	Feb. 27, 1883
266,706	Martin, M -----	Oct. 31, 1882	273,349	Dowens, H -----	Mar. 6, 1883
269,960	Reeve, T -----	Jan. 2, 1883	277,241	Day, W. G -----	May 8, 1883
270,643	Dowens, H -----	Jan. 16, 1883	277,965	Wells, J. O -----	May 22, 1883

## 69. TRANSMITTERS.

265,576	Carney, G. J. and Meigs, J. V -----	Oct. 10, 1882	272,645	Casey, T. A -----	Feb. 20, 1883
265,677	Kitsee, I -----	Oct. 10, 1882	279,065	Wilson, J. C -----	June 5, 1883
269,124	Seiler, P -----	Dec. 12, 1882			

## 70. UNDERGROUND LINES.

260,533	Campbell, W. M -----	July 4, 1882	273,828	Edison, T. A -----	Mar. 13, 1883
260,548	Du Bois, J. S -----	July 4, 1882	273,859	Kruesi, J -----	Mar. 13, 1883
261,189	Walker, N. U -----	July 18, 1882	273,869	McMahon, W. and T. G -----	Mar. 13, 1883
261,649	Apple, J. B -----	July 25, 1882	274,213	Meyer, H. R -----	Mar. 20, 1883
261,979	Anderson, S -----	Aug. 1, 1882	274,505	Lighthall, A. H -----	Mar. 27, 1883
262,499	Strohm, S. D -----	Aug. 8, 1882	274,522	Sloan, A -----	Mar. 27, 1883
262,630	Vail, T. N -----	Aug. 15, 1882	274,611	Johnstone, W. H -----	Mar. 27, 1883
263,586	Rittenhouse, N. M -----	Aug. 29, 1882	274,710	Brentano, S -----	Mar. 27, 1883
263,627	Thayer, R -----	Aug. 29, 1882	274,818	Phillips, W. J. and Kitson, G. L -----	Mar. 27, 1883
264,722	Mackintosh, J -----	Sept. 19, 1882	275,023	Clay, H -----	Apr. 3, 1883
265,131	O'Bryon, C. H -----	Sept. 26, 1882	275,195	Green, J. H -----	Apr. 3, 1883
265,147	Register, H. C -----	Sept. 26, 1882	275,233	Lynch, J -----	Apr. 3, 1883
265,594	Gage, G. A -----	Oct. 10, 1882	275,378	Haddock, W -----	Apr. 10, 1883
265,621	Mershon, A. H -----	Oct. 10, 1882	275,387	Hunter, R. M -----	Apr. 10, 1883
266,171	Mackintosh, W -----	Oct. 17, 1882	275,423	Shelbourne, S. F -----	Apr. 10, 1883
266,483	Kruesi, J -----	Oct. 24, 1882	275,424	Shelbourne, S. F -----	Apr. 10, 1883
266,677	Corbett, R. H -----	Oct. 31, 1882	275,425	Shelbourne, S. F -----	Apr. 10, 1883
266,681	Eaton, G. S -----	Oct. 31, 1882	275,776	Kruesi, J -----	Apr. 10, 1883
266,916	Strohm, S. D -----	Oct. 31, 1882	276,190	Mehaffey, J. A -----	Apr. 24, 1883
267,343	Harbison, A -----	Nov. 14, 1882	276,415	Hurlbut, D. N -----	Apr. 24, 1883
267,409	Eltonhead, W. B -----	Nov. 14, 1882	276,472	Rittenhouse, N. M. and Locke, M. W -----	Apr. 24, 1883
267,883	Hansen, C. H -----	Nov. 21, 1882			
268,031	Linford, C -----	Nov. 28, 1882	276,486	Shrievs, C. D. and Cook, J. E -----	Apr. 24, 1883
268,059	Waring, R. S -----	Nov. 28, 1882	276,757	Bentley, E. M. and Knight, W. H -----	May 1, 1883
268,158	Waring, R. S -----	Nov. 28, 1882	276,829	Knight, W. H. and Bentley, E. M -----	May 1, 1883
268,389	Conway, W. M -----	Dec. 5, 1882	276,953	Bentley, E. M -----	May 1, 1883
268,661	Haas, L -----	Dec. 5, 1882	276,954	Bentley, E. M -----	May 1, 1883
269,085	McLaughlin, J. K -----	Dec. 12, 1882	277,007	Cohlman, W -----	May 8, 1883
269,086	McLaughlin, J. K -----	Dec. 12, 1882	277,036	Hyde, J. B -----	May 8, 1883
269,379	Boyer, B -----	Dec. 19, 1882	277,335	Patterson, W. R -----	May 8, 1883
269,568	Eltonhead, W. B -----	Dec. 26, 1882	277,374	Strohm, S. D -----	May 8, 1883
269,807	McCullough, L. H -----	Dec. 26, 1882	277,588	Marks, J -----	May 15, 1883
272,221	Du Bois, J. S -----	Feb. 13, 1883	278,087	Brisben, W. M -----	May 22, 1883
272,410	Campbell, W. M -----	Feb. 20, 1883	278,095	Clark, E -----	May 22, 1883
272,411	Campbell, W. M -----	Feb. 20, 1883	278,627	Taaffe, F. X. and Koyl, C. H -----	May 29, 1883
272,833	Goodfellow, J. T -----	Feb. 20, 1883	279,392	Johnstone, W. H -----	June 12, 1883
273,295	Lytle, H. B -----	Mar. 6, 1883	279,646	Hamilton, J. E -----	June 19, 1883
273,305	Plankinton, W -----	Mar. 6, 1883	279,977	Parker, S -----	June 26, 1883
273,592	Patterson, W. R -----	Mar. 6, 1883	280,153	Eaton, G. S -----	June 26, 1883

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## APPENDIX NO. II.

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### PART II.

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CONSISTING OF A

NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1882, to July 1, 1883, giving the names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.

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# NUMERICAL INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1882, TO JULY 1, 1883.

No.	NAME.	CLASS.	DATE.
260,408	Peck, C. C. and Chapman, W. H.	Motors	July 4, 1882
260,449	Burn, T.	Keys	July 4, 1882
260,480	Heisler, C.	Magneto-electric	July 4, 1882
260,488	Lytle, H. B.	Telephonic telegraphs, electric	July 4, 1882
260,533	Campbell, W. M.	Underground lines	July 4, 1882
260,536	Chinnock, C. E.	Alarms, burglar	July 4, 1882
260,541	Craig, J. A. I.	Magneto-electric	July 4, 1882
260,548	Du Bois, J. S.	Underground lines	July 4, 1882
260,562	Greenfield, E. T. and Bradley, C. S.	Lights, systems and appliances	July 4, 1882
260,574	Irwin, J. H.	Motors	July 4, 1882
260,575	Irwin, J. H.	Regulators	July 4, 1882
260,600	Müller, H. J.	Lights, incandescent	July 4, 1882
260,623	Starr, E. T.	Regulators	July 4, 1882
260,624	Starr, E. T. and Peyton, W. J.	Batteries, secondary, applications	July 4, 1882
260,646	Borden, S.	Condensers	July 4, 1882
260,647	Borden, S.	Lights, arc	July 4, 1882
260,650	Brush, C. F.	Regulators	July 4, 1882
260,651	Brush, C. F.	do	July 4, 1882
260,652	Brush, C. F.	Magneto-electric	July 4, 1882
260,653	Brush, C. F.	Batteries, secondary	July 4, 1882
260,654	Brush, C. F.	do	July 4, 1882
260,667	Coy, G. W.	Telephonic telegraphs, systems	July 4, 1882
260,718	Weakley, J. W., jr.	Therapeutics, electrodes	July 4, 1882
260,737	Beecher, L.	Telephonic telegraphs, mechanical	July 11, 1882
260,751	Gullberg, C.	Clocks	July 11, 1882
260,804	Tirrell, J. P.	Gas-lighting	July 11, 1882
260,805	Tirrell, J. P.	do	July 11, 1882
260,806	Tirrell, J. P.	do	July 11, 1882
260,859	Friedel, C.	Batteries, galvanic	July 11, 1882
260,864	Guest, J. H.	Lights, incandescent	July 11, 1882
260,866	Haskins, C. D. and Lungren, C. M.	Regulators	July 11, 1882
260,879	Kitsee, I.	Telegraphs, fire	July 11, 1882
260,883	Lockwood, T. D.	Telephonic telegraphs, systems	July 11, 1882
260,884	Lockwood, T. D.	do	July 11, 1882
260,925	Ball, C. E.	Lights, arc	July 11, 1882
260,937	Candee, W. L.	Lights, systems and appliances	July 11, 1882
260,939	Chinnock, C. E.	Telephonic telegraphs, systems	July 11, 1882
260,975	Guest, J. H.	Lights, arc	July 11, 1882
260,982	Howser, G. W.	Telephonic telegraphs, calls	July 11, 1882
261,043	Rhodes, T. H.	Gas-lighting	July 11, 1882
261,067	Thomson, E.	Lights, arc	July 11, 1882
261,077	Brush, C. F.	Lights, systems and appliances	July 11, 1882
261,091	Haskins, C. D.	Lights, arc	July 11, 1882
261,118	Benjamin, E. B.	Friction-generators	July 11, 1882
261,129	Blair, J. B.	Magneto-electric	July 18, 1882
261,157	Hurlbut, D. N.	Lights, systems and appliances	July 18, 1882
261,172	Porter, H. B.	Bells	July 18, 1882
261,174	Quigley, W. D. G.	Telephonic telegraphs, mechanical	July 18, 1882
261,186	Vail, T. N.	Telephonic telegraphs, systems	July 18, 1882
261,187	Vail, T. N.	do	July 18, 1882
261,189	Walker, N. U.	Underground lines	July 18, 1882
261,234	Jameson, J.	Lights, incandescent	July 18, 1882
261,235	Karshner, W. W.	Therapeutics, baths	July 18, 1882
261,238	Kitsee, I.	Telegraphs, fire	July 18, 1882
261,260	Seymour, H. A.	Lights, systems and appliances	July 18, 1882
261,261	Seymour, H. A.	Lights, incandescent	July 18, 1882
261,262	Seymour, H. A.	Lights, systems and appliances	July 18, 1882
261,263	Seymour, H. A.	Lights, incandescent	July 18, 1882
261,264	Seymour, H. A.	do	July 18, 1882

No.	NAME.	CLASS.	DATE.
261,265	Seymour, H. A	Lights, systems and appliances	July 18, 1882
261,280	Van Depoele, C. J	Lights, arc	July 18, 1882
261,286	Willard, S. W	Applications, tools and machines	July 18, 1882
261,288	Wood, J. J	Magneto-electric	July 18, 1882
261,289	Wood, J. J	Lights, arc	July 18, 1882
261,303	Buell, C. E	Batteries, secondary, applications	July 18, 1882
261,351	Irwin, J. H	Lights, incandescent	July 18, 1882
261,352	Irwin, J. H	Lights, systems and appliances	July 18, 1882
261,370	McGlashan, C. F	Telegraphs, railway-car	July 18, 1882
261,390	Schuyler, D. A	Magneto-electric	July 18, 1882
261,410	Van Hoevenbergh, H	Telegraphs	July 18, 1882
261,435	Cuttriss, C	Batteries, secondary	July 18, 1882
261,472	Müller, H. J	Lights, arc	July 18, 1882
261,475	Neracher, W	Telegraphs, fire	July 18, 1882
261,490	Starr, E. T. and Peyton, W. J	Batteries, secondary, applications	July 18, 1882
261,503	Voelker, W. L	Lights, incandescent	July 18, 1882
261,511	Brown, C. W	Telephonic telegraphs, details	July 18, 1882
261,512	Brush, C. F	Batteries, secondary	July 18, 1882
261,513	Buell, C. E	Batteries, secondary, applications	July 18, 1882
261,520	Ball, R. E	Magneto-electric	July 25, 1882
261,560	Mayrhofer, C. A	Applications, tools and machines	July 25, 1882
261,567	Schoettel, E. A	Telegraphs, printing	July 25, 1882
261,598	Goldberg, M	Therapeutics, baths	July 25, 1882
261,649	Apple, J. B	Underground lines	July 25, 1882
261,677	Clarke, C. L. and Leigh, J	Gas-lighting	July 25, 1882
261,712	Hochhausen, W	Magneto-electric	July 25, 1882
261,741	Maxim, H. S	Lights, incandescent	July 25, 1882
261,772	Shaffler, W. C. and Plush, S. M	Telegraphs, fire	July 25, 1882
261,788	Thompson, B	Telegraphs, duplex	July 25, 1882
261,790	Thomson, E	Lights, arc	July 25, 1882
261,813	Emery, J. A	Railway-signals	July 25, 1882
261,815	Jenney, J. A. and C. D	Lights, arc	July 25, 1882
261,850	Heikel, O	Magneto-electric	Aug. 1, 1882
261,895	Anderson, J. and Smith, B	Telegraphs	Aug. 1, 1882
261,904	Brooks, E. J	Lights, arc	Aug. 1, 1882
261,916	Field, S. D	Telegraphs, duplex	Aug. 1, 1882
261,965	Sperry, E. A	Magneto-electric	Aug. 1, 1882
261,969	Throop, C. E	Telephonic telegraphs, systems	Aug. 1, 1882
261,975	Absterdam, J	Telegraphs, automatic	Aug. 1, 1882
261,979	Anderson, S	Underground lines	Aug. 1, 1882
261,989	Blodgett, G. W. and A. D	Indicators	Aug. 1, 1882
261,995	Brush, C. F	Batteries, secondary	Aug. 1, 1882
262,015	De La Roche, C. F	Lights, arc	Aug. 1, 1882
262,027	Farrell, J	Conductors	Aug. 1, 1882
262,028	Farrell, J	do	Aug. 1, 1882
262,029	Farrell, J	do	Aug. 1, 1882
262,054	Kitsee, I	Applications, general	Aug. 1, 1882
262,055	Kitsee, I	do	Aug. 1, 1882
262,056	Kitsee, I	do	Aug. 1, 1882
262,057	Kitsee, I	do	Aug. 1, 1882
262,059	Lane, T. W. and Harrington, F. W	Telephonic telegraphs, systems	Aug. 1, 1882
262,063	Le Grande, W. W	Telephonic telegraphs, calls	Aug. 1, 1882
262,093	Newbury, H. F	Magnetic-locks	Aug. 1, 1882
262,105	Parcelle, A. L	Telephonic telegraphs, reed	Aug. 1, 1882
262,106	Parcelle, A. L	do	Aug. 1, 1882
262,110	Patterson, A	Batteries, thermal	Aug. 1, 1882
262,111	Patterson, A	do	Aug. 1, 1882
262,136	Sheridan, H. B	Magneto-electric	Aug. 1, 1882
262,164	Watson, J. E	Lights, arc	Aug. 1, 1882
262,165	Watson, J. E	do	Aug. 1, 1882
262,180	Hadley, A	Telephonic telegraphs, systems	Aug. 1, 1882
262,210	Eckert, W. H. and E. A. and Seely, J. A	Insulators	Aug. 8, 1882
262,242	Palmer, A. C. and A. H	Telegraphs, fire	Aug. 8, 1882
262,248	Salisbury, E. W	Telephonic telegraphs, systems	Aug. 8, 1882
262,252	Southworth, H. W	Telephonic telegraphs, calls	Aug. 8, 1882
262,260	Tirrell, J. P	Gas-lighting	Aug. 8, 1882
262,261	Vaille, F. O.	Telephonic telegraphs, systems	Aug. 8, 1882
262,271	Bergmann, S	Lights, systems and appliances	Aug. 8, 1882
262,272	Bergmann, S	do	Aug. 8, 1882
262,285	Freeman, J. P	Telephonic telegraphs, electric	Aug. 8, 1882
262,296	Johnston, R. A	Lights, systems and appliances	Aug. 8, 1882
262,301	Mann, L	Telephonic telegraphs, systems	Aug. 8, 1882
262,333	Van Depoele, C. J	Lights, arc	Aug. 8, 1882
262,393	Freeman, J. P	Alarms, burglar	Aug. 8, 1882
262,396	Gary, W. W	Railway signals	Aug. 8, 1882
262,417	Irwin, J. H	Lights, systems and appliances	Aug. 8, 1882
262,418	Irwin, J. H	Lights, incandescent	Aug. 8, 1882

No.	NAME.	CLASS.	DATE.
262,419	Irwin, J. H	Lights, systems and appliances	Aug. 8, 1882
262,420	Irwin, J. H	Lights, incandescent	Aug. 8, 1882
262,421	Irwin, J. H	Regulators	Aug. 8, 1882
262,422	Irwin, J. H	Magneto-electric	Aug. 8, 1882
262,423	Irwin, J. H	Lightning-arresters	Aug. 8, 1882
262,424	Irwin, J. H	Lights, incandescent	Aug. 8, 1882
262,459	Mott, G. S	Telegraphs, duplex	Aug. 8, 1882
262,470	Perkins, C. G	Lights, incandescent	Aug. 8, 1882
262,499	Strohm, S. D	Underground lines	Aug. 8, 1882
262,529	Wood, J. J	Magneto-electric	Aug. 8, 1882
262,532	Bartlett, S. H. and Waite, H. E	Telephonic telegraphs, systems	Aug. 8, 1882
262,533	Brush, C. F	Batteries, secondary	Aug. 8, 1882
262,544	Jenney, J. A	Magneto-electric	Aug. 8, 1882
262,590	Heisler, C	do	Aug. 15, 1882
262,630	Vail, T. N	Underground lines	Aug. 15, 1882
262,645	Connolly, M. D. and T. A. and McTighe, T. J.	Telephonic telegraphs, systems	Aug. 15, 1882
262,646	Connolly, M. D.	do	Aug. 15, 1882
262,647	Connolly, M. D.	do	Aug. 15, 1882
262,660	Gilliland, J. F	Recorders	Aug. 15, 1882
262,700	Scribner, C. E	Telephonic telegraphs, electric	Aug. 15, 1882
262,701	Scribner, C. E	Telephonic telegraphs, systems	Aug. 15, 1882
262,718	Young, G. S. and Hatton, R. J	Lights, arc	Aug. 15, 1882
262,755	Field, S. D.	Telegraphs, duplex	Aug. 15, 1882
262,782	Irwin, J. H	Magneto-electric	Aug. 15, 1882
262,784	Jacques, W. W	Telephonic telegraphs, electric	Aug. 15, 1882
262,790	King, J.	Separators	Aug. 15, 1882
262,811	Milliken, G. F	Telephonic telegraphs, magnetic	Aug. 15, 1882
262,887	Buell, C. E	Telegraphs, fire	Aug. 15, 1882
262,921	Berliner, E.	Telephonic telegraphs, magnetic	Aug. 22, 1882
262,922	Berliner, E.	Telephonic telegraphs, systems	Aug. 22, 1882
262,941	Fiske, H. G	Lights, systems and appliances	Aug. 22, 1882
262,949	Howard, C. T	Lightning-arresters	Aug. 22, 1882
262,971	Moore, E. R.	Telegraphs, railway-car	Aug. 22, 1882
263,011	Bernstein, A.	Lights, incandescent	Aug. 22, 1882
263,103	Bergmann, S.	Lights, systems and appliances	Aug. 22, 1882
263,124	De Kabath, N	Batteries, secondary	Aug. 22, 1882
263,131	Edison, T. A	Separators	Aug. 22, 1882
263,132	Edison, T. A	Locomotion	Aug. 22, 1882
263,133	Edison, T. A	Magneto-electric	Aug. 22, 1882
263,134	Edison, T. A	Regulators	Aug. 22, 1882
263,135	Edison, T. A	Lights, incandescent	Aug. 22, 1882
263,136	Edison, T. A	Regulators	Aug. 22, 1882
263,137	Edison, T. A	Lights, systems and appliances	Aug. 22, 1882
263,138	Edison, T. A	Lights, arc	Aug. 22, 1882
263,139	Edison, T. A	Lights, incandescent	Aug. 22, 1882
263,140	Edison, T. A	Magneto-electric	Aug. 22, 1882
263,141	Edison, T. A	Lights, incandescent	Aug. 22, 1882
263,142	Edison, T. A	Lights, systems and appliances	Aug. 22, 1882
263,143	Edison, T. A	Magneto-electric	Aug. 22, 1882
263,144	Edison, T. A	Lights, incandescent	Aug. 22, 1882
263,145	Edison, T. A	do	Aug. 22, 1882
263,146	Edison, T. A	Magneto-electric	Aug. 22, 1882
263,147	Edison, T. A	Lights, systems and appliances	Aug. 22, 1882
263,148	Edison, T. A	Magneto-electric	Aug. 22, 1882
263,149	Edison, T. A	do	Aug. 22, 1882
263,150	Edison, T. A	do	Aug. 22, 1882
263,192	McCarty, N	Lights, arc	Aug. 22, 1882
263,246	Thomas, W. M	do	Aug. 22, 1882
263,247	Thomas, W. M	do	Aug. 22, 1882
263,257	Voelker, W. L	Lights, incandescent	Aug. 22, 1882
263,281	Blodgett, A. D. and G. W. and Tirrell, J. P.	Indicators	Aug. 22, 1882
263,296	Olmsted, J.	Lights, arc	Aug. 22, 1882
263,304	Betts, L. F	Lights, incandescent	Aug. 29, 1882
263,336	Hartwell, O. D	Telephonic telegraphs, details	Aug. 29, 1882
263,353	Piot, D. T	Motors	Aug. 29, 1882
263,380	Baldwin, C. W	Regulators	Aug. 29, 1882
263,404	Heisler, C	Lights, arc	Aug. 29, 1882
263,419	McCullough, L. H	Relays and sounders	Aug. 29, 1882
263,423	Munn, W. B	Lightning-rods	Aug. 29, 1882
263,457	Armstrong, O. S.	Gas-lighting	Aug. 29, 1882
263,491	Dent, W	Annunciators	Aug. 29, 1882
263,524	Jacques, W. W	Telephonic telegraphs, systems	Aug. 29, 1882
263,526	Jennison, C. R.	do	Aug. 29, 1882
263,554	McCabe, B., Swain, C. R. and Sutton, J. T	Lightning-arresters	Aug. 29, 1882
263,586	Rittenhouse, N. M	Underground lines	Aug. 29, 1882
263,621	Swan, A	Lights, incandescent	Aug. 29, 1882
263,622	Swan, A	Lights, systems and appliances	Aug. 29, 1882

No.	NAME.	CLASS.	DATE.
263,623	Swan, A	Lights, systems and appliances	Aug. 29, 1882
263,627	Thayer, R	Underground lines	Aug. 29, 1882
263,651	Bnell, C. E	Batteries, galvanic	Aug. 29, 1882
263,700	Hicks, T. H	Induction-coils	Sept. 5, 1882
263,756	Brush, C. F	Batteries, secondary	Sept. 5, 1882
263,757	Brush, C. F	Lights, systems and appliances	Sept. 5, 1882
263,758	Brush, C. F	do	Sept. 5, 1882
263,759	Buell, C. E	Telegraphs, fire	Sept. 5, 1882
263,780	Haase, R. and Recker, J. P	Magneto-electric	Sept. 5, 1882
263,801	Nichols, J. V	Lights, incandescent	Sept. 5, 1882
263,827	Weston, E	Lights, systems and appliances	Sept. 5, 1882
263,828	Weston, E	do	Sept. 5, 1882
263,829	Weston, E	do	Sept. 5, 1882
263,830	Weston, E	do	Sept. 5, 1882
263,862	Connolly, M. D	Telephonic telegraphs, systems	Sept. 5, 1882
263,870	DeKhotinsky, A	Regulators	Sept. 5, 1882
263,878	Edison, T. A	Lights, incandescent	Sept. 5, 1882
263,885	Fitch, F. K	Lights, arc	Sept. 5, 1882
263,913	Kellogg, A. B	Separators	Sept. 5, 1882
263,926	Lytle, H. B	Telephonic telegraphs, systems	Sept. 5, 1882
263,938	Mondos, J. A	Lights, arc	Sept. 5, 1882
263,939	Monnier, D	Indicators	Sept. 5, 1882
263,947	Neumeyer, H. F	Alarms, burglar	Sept. 5, 1882
263,973	Shaw, F. R	Telephonic telegraphs, mechanical	Sept. 5, 1882
264,006	Weston, E	Lights, arc	Sept. 5, 1882
264,028	De Loch-Labye, L.	Telephonic telegraphs, electric	Sept. 5, 1882
264,042	Maxim, H. S	Lights, systems and appliances	Sept. 5, 1882
264,096	McIntosh, L. D	Batteries, galvanic	Sept. 12, 1882
264,109	Scribner, C. E	Bells	Sept. 12, 1882
264,193	Palmer, A. H. and Rolfe, C. A	Telegraphs, fire	Sept. 12, 1882
264,211	Brush, C. F	Batteries, secondary	Sept. 12, 1882
264,227	Beardslee, G. W	Magneto-electric	Sept. 12, 1882
264,228	Beardslee, G. W	do	Sept. 12, 1882
264,229	Beardslee, G. W	do	Sept. 12, 1882
264,230	Beardslee, G. W	do	Sept. 12, 1882
264,257	De La Roche, C. F	Lights, arc	Sept. 12, 1882
264,258	Dimmick, O. J	Applications, general	Sept. 12, 1882
264,264	Dudley, W. J	Telephonic telegraphs, systems	Sept. 12, 1882
264,267	Fitch, F. K	Lights, arc	Sept. 12, 1882
264,269	Freeman, W. K	do	Sept. 12, 1882
264,270	Freeman, W. K	do	Sept. 12, 1882
264,271	Freeman, W. K	Magneto-electric	Sept. 12, 1882
264,272	Freeman, W. K	Motors	Sept. 12, 1882
264,298	Johnson, E. H	Connectors	Sept. 12, 1882
264,299	Johnson, E. H	Lights, systems and appliances	Sept. 12, 1882
264,304	Kinsman, F. E	Batteries, galvanic	Sept. 12, 1882
264,328	Morton, A. W	Lights, incandescent	Sept. 12, 1882
264,346	Sedlacek, H., Wikulill, F. and Schuekert, S.	Lights, arc	Sept. 12, 1882
264,348	Shaw, T	Keys	Sept. 12, 1882
264,372	Thompson, B	Telegraphs, duplex	Sept. 12, 1882
264,475	Paul, G. D. and Kampfe, F. A	Car-brakes	Sept. 19, 1882
264,510	Bolton, O	Recorders	Sept. 19, 1882
264,517	Crookes, W	Lights, incandescent	Sept. 19, 1882
264,523	Flatow, S. J	Applications, general	Sept. 19, 1882
264,599	Allen, G. H	Lights, systems and appliances	Sept. 19, 1882
264,618	Brown, A	Batteries, galvanic	Sept. 19, 1882
264,620	Buchanan, C. G	Separators	Sept. 19, 1882
264,631	Coy, G. W	Telephonic telegraphs, systems	Sept. 19, 1882
264,642	Edison, T. A	Lights, systems and appliances	Sept. 19, 1882
264,643	Edison, T. A	Magneto-electric	Sept. 19, 1882
264,645	Edison, T. A	Lights, systems and appliances	Sept. 19, 1882
264,646	Edison, T. A	Magneto-electric	Sept. 19, 1882
264,647	Edison, T. A	do	Sept. 19, 1882
264,648	Edison, T. A	do	Sept. 19, 1882
264,649	Edison, T. A	do	Sept. 19, 1882
264,650	Edison, T. A	Lights, incandescent	Sept. 19, 1882
264,651	Edison, T. A	do	Sept. 19, 1882
264,652	Edison, T. A	do	Sept. 19, 1882
264,653	Edison, T. A	do	Sept. 19, 1882
264,654	Edison, T. A	do	Sept. 19, 1882
264,655	Edison, T. A	do	Sept. 19, 1882
264,656	Edison, T. A	do	Sept. 19, 1882
264,657	Edison, T. A	do	Sept. 19, 1882
264,658	Edison, T. A	Regulators	Sept. 19, 1882
264,659	Edison, T. A	do	Sept. 19, 1882
264,660	Edison, T. A	do	Sept. 19, 1882
264,661	Edison, T. A	do	Sept. 19, 1882

No.	NAME.	CLASS.	DATE.
264,662	Edison, T. A	Regulators	Sept. 19, 1882
264,663	Edison, T. A	do	Sept. 19, 1882
264,664	Edison, T. A	do	Sept. 19, 1882
264,665	Edison, T. A	do	Sept. 19, 1882
264,666	Edison, T. A	do	Sept. 19, 1882
264,667	Edison, T. A	do	Sept. 19, 1882
264,668	Edison, T. A	do	Sept. 19, 1882
264,669	Edison, T. A	do	Sept. 19, 1882
264,670	Edison, T. A	do	Sept. 19, 1882
264,671	Edison, T. A	do	Sept. 19, 1882
264,672	Edison, T. A	do	Sept. 19, 1882
264,673	Edison, T. A	do	Sept. 19, 1882
264,698	Holzer, W	Lights, incandescent	Sept. 19, 1882
264,722	Mackintosh, J	Underground lines	Sept. 19, 1882
264,737	Mott, S. D	Lights, incandescent	Sept. 19, 1882
264,777	Sheehy, R. J	Lights, systems and appliances	Sept. 19, 1882
264,780	Siemens, E. W	Magneto-electric	Sept. 19, 1882
264,819	Brown, F. M	Heaters	Sept. 19, 1882
264,821	Callender, W. O	Conductors	Sept. 19, 1882
264,843	Prentice, W. H. and Beckwith, S. H	Telephonic telegraphs, calls	Sept. 19, 1882
264,848	Batley, J	Motors	Sept. 26, 1882
264,919	Barnes, R. F	Lights, incandescent	Sept. 26, 1882
264,927	Cassel, H. R	Electrolysis	Sept. 26, 1882
264,928	Cassel, H. R	do	Sept. 26, 1882
264,951	Maxim, H. S	Lights, systems and appliances	Sept. 26, 1882
264,952	Maxim, H. S	Batteries, secondary, applications	Sept. 26, 1882
264,958	Olmsted, J	Lights, arc	Sept. 26, 1882
264,961	Plush, S. M. and Phelps, W. P	Telegraphs, printing	Sept. 26, 1882
264,970	Swan, A	Lights, systems and appliances	Sept. 26, 1882
264,978	Weston, E	Lights, arc	Sept. 26, 1882
264,979	Weston, E	Regulators	Sept. 26, 1882
264,980	Weston, E	do	Sept. 26, 1882
264,981	Weston, E	do	Sept. 26, 1882
264,982	Weston, E	Motors	Sept. 26, 1882
264,983	Weston, E	do	Sept. 26, 1882
264,984	Weston, E	Lights, arc	Sept. 26, 1882
264,985	Weston, E	Lights, incandescent	Sept. 26, 1882
264,986	Weston, E	do	Sept. 26, 1882
264,987	Weston, E	do	Sept. 26, 1882
264,988	Weston, E	do	Sept. 26, 1882
265,004	Beardslee, G. W	Magneto-electric	Sept. 26, 1882
265,023	Conover, P. V	Car-brakes	Sept. 26, 1882
265,028	Coy, G. W	Telephonic telegraphs, systems	Sept. 26, 1882
265,049	Finney, J. R	Lights, arc	Sept. 26, 1882
265,050	Finney, J. R. and Campbell, L	do	Sept. 26, 1882
265,092	Jepson, J	Telephonic telegraphs, systems	Sept. 26, 1882
265,130	Nichols, J. V	Conductors	Sept. 26, 1882
265,131	O'Bryon, C. H	Underground lines	Sept. 26, 1882
265,147	Register, H. C	do	Sept. 26, 1882
265,209	Anderson, F	Telegraphs, perforating	Sept. 26, 1882
265,210	Anderson, F	Telegraphs, automatic	Sept. 26, 1882
265,211	Anderson, F	Telegraphs, perforating	Sept. 26, 1882
265,212	Anderson, F	Telegraphs, automatic	Sept. 26, 1882
265,213	Anderson, F	Telegraphs, perforating	Sept. 26, 1882
265,290	Tabourin, G. A	Regulators	Oct. 3, 1882
265,292	Wheeler, W	Lights, systems and appliances	Oct. 3, 1882
265,297	Anderson, F	Telegraphs, automatic	Oct. 3, 1882
265,311	Edison, T. A	Lights, incandescent	Oct. 3, 1882
265,315	Guest, J. H	do	Oct. 3, 1882
265,340	Puffer, S. M	Batteries, secondary, applications	Oct. 3, 1882
265,344	Stitzel, F	Applications, general	Oct. 3, 1882
265,353	Wirsching, A	Telegraphs, printing	Oct. 3, 1882
265,358	Anderson, F	Telegraphs, automatic	Oct. 3, 1882
265,364	Ashcroft, E. H	Alarms	Oct. 3, 1882
265,365	Ashcroft, E. H	do	Oct. 3, 1882
265,410	Guest, J. H	Lights, incandescent	Oct. 3, 1882
265,412	Hathaway, W. E. and Johnston, W. B	Telephonic telegraphs, mechanical	Oct. 3, 1882
265,448	Sawyer, W. E	Applications, tools and machines	Oct. 3, 1882
265,454	Stabler, J. P	Telephonic telegraphs, calls	Oct. 3, 1882
265,455	Stabler, J. P	do	Oct. 3, 1882
265,456	Stabler, J. P	do	Oct. 3, 1882
265,475	Waters, S	Lights, incandescent	Oct. 3, 1882
265,485	Cochran, T	Relays and sounders	Oct. 3, 1882
265,488	D'Infreville, G	Telegraphs, dynamo	Oct. 3, 1882
265,489	D'Infreville, G	do	Oct. 3, 1882
265,519	Langley, J. W	Regulators	Oct. 3, 1882
265,576	Carney, G. J. and Meigs, J. V	Transmitters	Oct. 10, 1882

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265,594	Gage, G. A.	Underground lines	Oct. 10, 1882
265,595	Gilliland, J. F.	Magneto-electric	Oct. 10, 1882
265,621	Mershon, A. H.	Underground lines	Oct. 10, 1882
265,645	Thompson, B.	Telegraphs, multiplex	Oct. 10, 1882
265,670	Gnest, J. H.	Lights, arc	Oct. 10, 1882
265,676	Kitsee, I.	Telegraphs, fire	Oct. 10, 1882
265,677	Kitsee, I.	Transmitters	Oct. 10, 1882
265,720	Trott, S. and Kingsford, H.	Conductors	Oct. 10, 1882
265,737	Beardslee, G. W.	Lights, arc	Oct. 10, 1882
265,746	Brewtnall, A. W.	Connectors	Oct. 10, 1882
265,753	Cary, J. H.	Telephonic telegraphs, calls	Oct. 10, 1882
265,754	Chandler, J.	Railway-signals	Oct. 10, 1882
265,756	Clark, J. P.	Telegraphs, railway-car	Oct. 10, 1882
265,757	Clark, J. P.	do	Oct. 10, 1882
265,774	Edison, T. A.	Meters	Oct. 10, 1882
265,775	Edison, T. A.	Lights, arc	Oct. 10, 1882
265,776	Edison, T. A.	Alarms	Oct. 10, 1882
265,777	Edison, T. A.	Lights, systems and appliances	Oct. 10, 1882
265,778	Edison, T. A.	Locomotion	Oct. 10, 1882
265,779	Edison, T. A.	Regulators	Oct. 10, 1882
265,780	Edison, T. A.	do	Oct. 10, 1882
265,781	Edison, T. A.	do	Oct. 10, 1882
265,782	Edison, T. A.	do	Oct. 10, 1882
265,783	Edison, T. A.	do	Oct. 10, 1882
265,784	Edison, T. A.	do	Oct. 10, 1882
265,785	Edison, T. A.	Magneto-electric	Oct. 10, 1882
265,786	Edison, T. A.	do	Oct. 10, 1882
265,789	Essick, S. V.	Morse registers	Oct. 10, 1882
265,790	Farmer, M. G.	Lights, incandescent	Oct. 10, 1882
265,810	Hurlbut, D. N.	Lights, systems and appliances	Oct. 10, 1882
265,853	Müller, H. J.	Magneto-electric	Oct. 10, 1882
265,858	Ott, J. F.	Regulators	Oct. 10, 1882
265,859	Ott, J. F.	do	Oct. 10, 1882
265,861	Pitkin, J.	Batteries, secondary	Oct. 10, 1882
265,866	Reissig, W.	Thermostats	Oct. 10, 1882
265,897	Watson, T. A.	Telephonic telegraphs, systems	Oct. 10, 1882
265,912	Adams, G. W.	Recorders	Oct. 10, 1882
265,932	Newbury, H. F.	Magnetic-locks	Oct. 10, 1882
265,936	Thomson, E.	Magneto-electric	Oct. 10, 1882
265,937	Thomson, E.	Regulators	Oct. 10, 1882
265,972	McKinney, W. D.	Telephonic telegraphs, systems	Oct. 17, 1882
265,993	Thomson, E.	Lights, arc	Oct. 17, 1882
266,021	Edison, T. A.	Telephonic telegraphs, electric	Oct. 17, 1882
266,022	Edison, T. A.	do	Oct. 17, 1882
266,027	Gary, W. W.	Railway-signals	Oct. 17, 1882
266,043	Milliken, G. F.	Telephonic telegraphs, electric	Oct. 17, 1882
266,056	Shaver, G. F.	Telephonic telegraphs, systems	Oct. 17, 1882
266,075	Ball, C. E.	Lightning-rods	Oct. 17, 1882
266,089	Brush, C. F.	Batteries, secondary	Oct. 17, 1882
266,090	Brush, C. F.	do	Oct. 17, 1882
266,107	Curtiss, R. M.	Applications, tools and machines	Oct. 17, 1882
266,114	Eaton, A. K.	Batteries, secondary	Oct. 17, 1882
266,115	Eaton, A. K.	do	Oct. 17, 1882
266,129	Gibbs, C.	Batteries, galvanic	Oct. 17, 1882
266,161	Kartzmark, O.	Lights, arc	Oct. 17, 1882
266,171	Mackintosh, W.	Underground lines	Oct. 17, 1882
266,172	Maloney, J. A. and Koyl, C. H.	Batteries, secondary	Oct. 17, 1882
266,176	McCausland, W. J.	Telegraphs, printing	Oct. 17, 1882
266,187	Nichols, J. V.	Lights, incandescent	Oct. 17, 1882
266,210	Schooley, W. D.	Gas-lighting	Oct. 17, 1882
266,234	Waterhouse, A. G.	Lights, systems and appliances	Oct. 17, 1882
266,235	Waterhouse, A. G.	Magneto-electric	Oct. 17, 1882
266,236	Waterhouse, A. G.	Lights, arc	Oct. 17, 1882
266,239	Weston, E.	Regulators	Oct. 17, 1882
266,240	Weston, E.	Lights, arc	Oct. 17, 1882
266,241	Weston, E.	Lights, systems and appliances	Oct. 17, 1882
266,242	Weston, E.	Lights, arc	Oct. 17, 1882
266,243	Weston, E.	Magneto-electric	Oct. 17, 1882
266,244	Weston, E.	Indicators	Oct. 17, 1882
266,262	Shaw, W. A.	Batteries, secondary	Oct. 17, 1882
266,277	Eckert, W. H., Seely, J. A. and Eckert, E. A.	Telephonic telegraphs, systems	Oct. 24, 1882
266,286	Haskins, C. D.	Telephonic telegraphs, electric	Oct. 24, 1882
266,287	Haskins, C. C. and Wilson, C. H.	Telephonic telegraphs, systems	Oct. 24, 1882
266,290	Hindley, R. C. and Buffham, W. S.	Magneto-electric	Oct. 24, 1882
266,292	Jacobson, L.	Telephonic telegraphs, electric	Oct. 24, 1882
266,295	Lewis, C. W.	Telephonic telegraphs, systems	Oct. 24, 1882
266,297	Livermore, J. P.	Railway-signals	Oct. 24, 1882

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266,303	Müller, H. J	Lights, systems and appliances	Oct. 24, 1882
266,319	Scribner, C. E	Telephonic telegraphs, systems	Oct. 24, 1882
266,320	Scribner, C. E	do	Oct. 24, 1882
266,321	Scribner, C. E	do	Oct. 24, 1882
266,337	Andrews, J. D. F	Lights, are	Oct. 24, 1882
266,344	Breckenridge, H. W. and Duxbury, J. W	Telephonic telegraphs, systems	Oct. 24, 1882
266,353	Delany, P. B	Conductors	Oct. 24, 1882
266,358	Goebel, H.	Lights, incandescent	Oct. 24, 1882
266,363	Heinrichs, C. F	Lights, are	Oct. 24, 1882
266,374	Lewis, C. W	Telephonic telegraphs, systems	Oct. 24, 1882
266,377	MacKellar, A. D	Motors	Oct. 24, 1882
266,405	Warner, J. C	Annunciators	Oct. 24, 1882
266,447	Edison, T. A	Lights, incandescent	Oct. 24, 1882
266,455	Freeman, W. P	Lights, are	Oct. 24, 1882
266,467	Guerin, E	Friction-generators	Oct. 24, 1882
266,483	Kruesi, J	Underground lines	Oct. 24, 1882
266,506	Osborne, E. F	Alarms	Oct. 24, 1882
266,515	Pond, C. L	Telephonic telegraphs, mechanical	Oct. 24, 1882
266,518	Ransom, G. F	Recorders	Oct. 24, 1882
266,549	Stieringer, L	Lights, systems and appliances	Oct. 24, 1882
266,550	Stieringer, L	do	Oct. 24, 1882
266,567	Watson, T. A	Telephonic telegraphs, magnetic	Oct. 24, 1882
266,579	Buell, C. E	Telegraphs, fire	Oct. 24, 1882
266,588	Edison, T. A	Lights, systems and appliances	Oct. 24, 1882
266,592	Johnson, A. F. and F. B	Telegraphs, perforating	Oct. 24, 1882
266,593	Johnson, A. F. and F. B	do	Oct. 24, 1882
266,615	Drawbaugh, D	Telephonic telegraphs, electric	Oct. 31, 1882
266,677	Corbett, R. H	Underground lines	Oct. 31, 1882
266,681	Eaton, G. S	do	Oct. 31, 1882
266,703	Lockwood, J. E	Lights, systems and appliances	Oct. 31, 1882
266,706	Martin, M	Thermostats	Oct. 31, 1882
266,735	Van Depoele, C. J	Induction-coils	Oct. 31, 1882
266,739	Weston, E	Lights, are	Oct. 31, 1882
266,740	Weston, E	Magneto-electric	Oct. 31, 1882
266,741	Weston, E	Lights, incandescent	Oct. 31, 1882
266,746	Beedy, S. E	Telephonic telegraphs, magnetic	Oct. 31, 1882
266,747	Beedy, S. E	do	Oct. 31, 1882
266,750	Bergmann, S	Telephonic telegraphs, systems	Oct. 31, 1882
266,762	Brush, C. F	Batteries, secondary	Oct. 31, 1882
266,793	Edison, T. A	Lights, systems and appliances	Oct. 31, 1882
266,798	Faure, C. A	Batteries, galvanic	Oct. 31, 1882
266,806	Gilliland, E. T	Telegraphs, railway-car	Oct. 31, 1882
266,808	Greenfield, E. T	Lights, systems and appliances	Oct. 31, 1882
266,841	Kenton, H	Separators	Oct. 31, 1882
266,853	Mann, L	Telephonic telegraphs, systems	Oct. 31, 1882
266,854	Mann, L	do	Oct. 31, 1882
266,855	Mason, W. B	Magneto-electric	Oct. 31, 1882
266,904	Scott, C. A	Railway-signals	Oct. 31, 1882
266,910	Starr, E. T	Rheostats	Oct. 31, 1882
266,911	Starr, E. T	do	Oct. 31, 1882
266,916	Strohm, S. D	Underground lines	Oct. 31, 1882
266,957	Gassett, O	Railway-signals	Oct. 31, 1882
266,969	Cheever, C. A. and Candee, W. L	Lights, systems and appliances	Nov. 7, 1882
266,987	Gisborne, J. S	Telegraphs, dial	Nov. 7, 1882
266,993	Jablochkoff, P	Magneto-electric	Nov. 7, 1882
267,025	See, J. W	Therapeutics, electrodes	Nov. 7, 1882
267,044	Waring, R. S. and Hyde, J. B	Conductors	Nov. 7, 1882
267,045	Waring, R. S. and Hyde, J. B	do	Nov. 7, 1882
267,046	Waring, R. S.	do	Nov. 7, 1882
267,058	Brennan, J. W	Telephonic telegraphs, systems	Nov. 7, 1882
267,059	Brennan, J. W	do	Nov. 7, 1882
267,062	Cowell, E. R. E	Recorders	Nov. 7, 1882
267,115	Smith, C. D. F	Lights, systems and appliances	Nov. 7, 1882
267,136	Blanchard, V. W	Magneto-electric	Nov. 7, 1882
267,137	Blanchard, V. W	Batteries, secondary	Nov. 7, 1882
267,138	Blanchard, V. W	Electro-magnets	Nov. 7, 1882
267,144	Brougham, R	Switches	Nov. 7, 1882
267,155	Cooley, C. A	Lights, are	Nov. 7, 1882
267,195	Hanlon, G. O., J. P. A. and J. F	Railway-signals	Nov. 7, 1882
267,196	Harling, E. J. and Hartmann, E	Magneto-electric	Nov. 7, 1882
267,208	Huston, H. E	Telephonic telegraphs, mechanical	Nov. 7, 1882
267,259	Robinson, W	Railway-signals	Nov. 7, 1882
267,263	Scheeffler, G. A	Magneto-electric	Nov. 7, 1882
267,275	Starr, E. T	Batteries, secondary	Nov. 7, 1882
267,278	Strohm, S. D	Conductors	Nov. 7, 1882
267,279	Strohm, S. D	do	Nov. 7, 1882
267,287	Waldo, L	Circuit-closers	Nov. 7, 1882

No.	NAME.	CLASS.	DATE.
267,298	Willson, R. W.	Clocks	Nov. 7, 1882
267,299	Willson, R. W.	do	Nov. 7, 1882
267,300	Willson, R. W.	do	Nov. 7, 1882
267,319	Bernstein, A.	Batteries, galvanic	Nov. 14, 1882
267,343	Harbison, A.	Underground lines	Nov. 14, 1882
267,366	Phelps, G. M.	Telegraphs, printing	Nov. 14, 1882
267,387	Watson, T. A.	Telephonic telegraphs, systems	Nov. 14, 1882
267,409	Eltonhead, W. B.	Underground lines	Nov. 14, 1882
267,437	Loughlin, J. F.	Indicators	Nov. 14, 1882
267,445	Mott, S. D.	Meters	Nov. 14, 1882
267,446	Mott, S. D.	Regulators	Nov. 14, 1882
267,458	Rider, A. K.	Applications, tools and machines	Nov. 14, 1882
267,474	Weston, E.	Lights, arc	Nov. 14, 1882
267,504	Dunn, J. P.	Telegraphs, fire	Nov. 14, 1882
267,553	McCarty, N.	Lights, arc	Nov. 14, 1882
267,577	O'Harra, G. W.	Batteries, galvanic	Nov. 14, 1882
267,597	Sawyer, W. H.	Conductors	Nov. 14, 1882
267,609	Slaffter, C. J.	do	Nov. 14, 1882
267,647	Emmens, S. H.	Lights, incandescent	Nov. 14, 1882
267,684	Fowler, A.	Applications, general	Nov. 21, 1882
267,685	Fowler, A.	do	Nov. 21, 1882
267,691	Hussey, C. A.	Lights, arc	Nov. 21, 1882
267,710	Peck, C. C. and Chapman, W. H.	Motors	Nov. 21, 1882
267,711	Peck, C. C. and Chapman, W. H.	Switches	Nov. 21, 1882
267,747	Gilliland, J. F.	do	Nov. 21, 1882
267,790	Jackson, W. A. and Cole, W. R.	Telephonic telegraphs, systems	Nov. 21, 1882
267,804	Starr, E. T.	Batteries, secondary	Nov. 21, 1882
267,807	Tanner, F.	Annunciators	Nov. 21, 1882
267,816	Zalinski, E. L.	Electrolysis	Nov. 21, 1882
267,825	Bell, T. J.	Alarms	Nov. 21, 1882
267,833	Bunnell, J. H.	Relays and sounders	Nov. 21, 1882
267,859	Finney, J. R.	Regulators	Nov. 21, 1882
267,860	Finney, J. R.	Batteries, secondary	Nov. 21, 1882
267,878	Guthrie, J. T.	Keys	Nov. 21, 1882
267,883	Hansen, C. H.	Underground lines	Nov. 21, 1882
267,897	Johnson, H. T.	Telephonic telegraphs, mechanical	Nov. 21, 1882
267,905	Lartigue, H.	Telephonic telegraphs, systems	Nov. 21, 1882
267,929	Pope, F. L.	Morse registers	Nov. 21, 1882
267,945	Southworth, H. W.	Telephonic telegraphs, calls	Nov. 21, 1882
267,966	Anderson, F.	Relays and sounders	Nov. 21, 1882
267,967	Anderson, F.	Morse registers	Nov. 21, 1882
267,978	Gassett, O.	Railway-signals	Nov. 21, 1882
267,979	Gassett, O.	do	Nov. 21, 1882
267,987	Ruebel, C. A. E.	Alarms, burglar	Nov. 21, 1882
268,031	Linford, C.	Underground lines	Nov. 28, 1882
268,034	Mackay, M.	Conductors	Nov. 28, 1882
268,038	McLaughlin, J.	Lights, arc	Nov. 28, 1882
268,045	See, J. W.	Recorders	Nov. 28, 1882
268,059	Waring, R. S.	Underground lines	Nov. 28, 1882
268,060	Waring, R. S.	Conductors	Nov. 28, 1882
268,075	Brown, G. M.	Insulators	Nov. 28, 1882
268,099	Heikel, O.	Magneto-electric	Nov. 28, 1882
268,155	Van Choate, S. F.	Lights, arc	Nov. 28, 1882
268,157	Waring, R. S.	Conductors	Nov. 28, 1882
268,158	Waring, R. S.	Underground lines	Nov. 28, 1882
268,159	Waring, R. S.	Conductors	Nov. 28, 1882
268,174	Blanchard, V. W.	Batteries, secondary	Nov. 28, 1882
268,175	Blanchard, V. W.	Batteries, secondary, applications	Nov. 28, 1882
268,205	Edison, T. A.	Magneto-electric	Nov. 28, 1882
268,206	Edison, T. A.	Lights, incandescent	Nov. 28, 1882
268,218	Graham, A.	Lights, arc	Nov. 28, 1882
268,224	Harling, E. J. and Hartmann, E.	do	Nov. 28, 1882
268,237	Johnson, A. F. and F. B.	Telegraphs, printing	Nov. 28, 1882
268,254	Mather, R. H.	Lights, arc	Nov. 28, 1882
268,255	Mather, R. H.	Magneto-electric	Nov. 28, 1882
268,269	Nichols, J. V.	Lights, incandescent	Nov. 28, 1882
268,270	Nichols, J. V.	do	Nov. 28, 1882
268,294	Rogers, J. H.	Telephonic telegraphs, systems	Nov. 28, 1882
268,308	Starr, E. T. and E. E.	Batteries, secondary	Nov. 28, 1882
268,316	Tipton, A. W.	Therapeutics, electrodes	Nov. 28, 1882
268,317	Thompson, B.	Telegraphs, duplex	Nov. 28, 1882
268,324	Waring, R. S.	Conductors	Nov. 28, 1882
268,329	Weston, E.	Lights, incandescent	Nov. 28, 1882
268,330	Weston, E.	do	Nov. 28, 1882
268,331	Weston, E.	Magneto-electric	Nov. 28, 1882
268,359	Dudley, W. J.	Telephonic telegraphs, systems	Nov. 28, 1882
268,360	Eaton, A. K.	Batteries, secondary	Nov. 28, 1882

No.	NAME.	CLASS.	DATE.
268,389	Conway, W. M.	Underground lines	Dec. 5, 1882
268,392	Edgerton, N. H.	Lights, arc	Dec. 5, 1882
268,394	Finney, J. R.	do	Dec. 5, 1882
268,448	Baldwin, J. S.	Bells	Dec. 5, 1882
268,476	Finney, J. R.	Telegraphs, railway-car	Dec. 5, 1882
268,478	Fitch, F. K.	Conductors	Dec. 5, 1882
268,523	Nesbitt, J.	Regulators	Dec. 5, 1882
268,554	Shaw, F.	Telephonic telegraphs, systems	Dec. 5, 1882
268,561	Smithers, J. P.	Repeaters	Dec. 5, 1882
268,630	Dailey, G. F.	Telephonic telegraphs, magnetic	Dec. 5, 1882
268,661	Haas, L.	Underground lines	Dec. 5, 1882
268,746	Stebbins, J. K.	Telephonic telegraphs, mechanical	Dec. 5, 1882
268,796	Hunt, W. L.	Telegraphs, railway-car	Dec. 12, 1882
268,850	Ball, C. M.	Lights, arc	Dec. 12, 1882
268,851	Ball, C. M.	do	Dec. 12, 1882
268,908	Kitsee, I.	Applications, general	Dec. 12, 1882
268,956	Sperry, E. A.	Regulators	Dec. 12, 1882
268,980	Bain, F.	Magneto-electric	Dec. 12, 1882
269,013	Coleman, C. F. and Smith, H. A.	Lights, systems and appliances	Dec. 12, 1882
269,018	Crowell, E. and Dawson, E. C.	Lightning-rods	Dec. 12, 1882
269,030	Egan, C.	Telephonic telegraphs, mechanical	Dec. 12, 1882
269,036	Fisher, A. B.	Magneto-electric	Dec. 12, 1882
269,082	McCollom, W. J.	Applications, general	Dec. 12, 1882
269,085	McLaughlin, J. K.	Underground lines	Dec. 12, 1882
269,086	McLaughlin, J. K.	do	Dec. 12, 1882
269,092	Molera, E. J.	Batteries, secondary, applications	Dec. 12, 1882
269,124	Seiler, P.	Transmitters	Dec. 12, 1882
269,130	Snell, F. H.	Telephonic telegraphs, systems	Dec. 12, 1882
269,132	Stanley, W., jr.	Lights, incandescent	Dec. 12, 1882
269,133	Stanley, W., jr.	Lights, systems and appliances	Dec. 12, 1882
269,139	Trenholm, W. L.	do	Dec. 12, 1882
269,151	Woolley, L. G.	Lights, arc	Dec. 12, 1882
269,179	Cointepas, E. M.	Batteries, galvanic	Dec. 19, 1882
269,225	Painter, W.	Magneto-electric, hand-machines	Dec. 19, 1882
269,238	Shiras, J. O. and Eckert, E. A.	Telephonic telegraphs, systems	Dec. 19, 1882
269,239	Slattery, M. M. M.	Lights, incandescent	Dec. 19, 1882
269,273	Evans, C. A.	Alarms	Dec. 19, 1882
269,281	Gramme, Z. T.	Motors	Dec. 19, 1882
269,318	Peck, C. C. and Chapman, W. H.	do	Dec. 19, 1882
269,321	Prosch, C.	Keys	Dec. 19, 1882
269,326	Rogers, J. H.	Telephonic telegraphs, relays and repeaters	Dec. 19, 1882
269,328	Sawyer, W. H.	Conductors	Dec. 19, 1882
269,331	Schreiber, A. E.	Motors	Dec. 19, 1882
269,379	Boyer, B.	Underground lines	Dec. 19, 1882
269,417	Holcombe, A. G.	Lights, arc	Dec. 19, 1882
269,439	McEvoy, C. A.	Applications, general	Dec. 19, 1882
269,453	Parker, W. S.	Lights, arc	Dec. 19, 1882
269,454	Parkhurst, C. D.	Batteries, galvanic	Dec. 19, 1882
269,470	Sawyer, W. H.	Conductors	Dec. 19, 1882
269,476	Starr, E. T.	Batteries, secondary, applications	Dec. 19, 1882
269,521	Hamilton, E. M.	Keys	Dec. 26, 1882
269,526	Jennings, C. C.	Lights, systems and appliances	Dec. 26, 1882
269,559	Bernstein, A.	Meters	Dec. 26, 1882
269,568	Eltonhead, W. B.	Underground lines	Dec. 26, 1882
269,593	Mäyrhofer, C. A.	Telegraphs, fire	Dec. 26, 1882
269,605	Thomson, E.	Magneto-electric	Dec. 26, 1882
269,606	Thomson, E.	Regulators	Dec. 26, 1882
269,634	Burnside, W. J.	Telegraphs, printing	Dec. 26, 1882
269,657	Fitch, G. A.	Telephonic telegraphs, magnetic	Dec. 26, 1882
269,735	Speicher, J.	Conductors	Dec. 26, 1882
269,757	Weston, E.	Lights, incandescent	Dec. 26, 1882
269,758	Weston, E.	Lights, systems and appliances	Dec. 26, 1882
269,759	Weston, E.	Lights, incandescent	Dec. 26, 1882
269,760	Weston, E.	Rheostats	Dec. 26, 1882
269,761	Weston, E.	Magneto-electric	Dec. 26, 1882
269,794	Kidder, J.	Induction-coils	Dec. 26, 1882
269,805	Maxim, H. S.	Regulators	Dec. 26, 1882
269,807	McCullough, L. H.	Underground lines	Dec. 26, 1882
269,813	Parker, L. C.	Applications, tools and machines	Dec. 26, 1882
269,862	Jackson, C. T.	Alarms, burglar	Jan. 2, 1883
269,863	Mackintosh, J.	Conductors	Jan. 2, 1883
269,879	Porter, H. B.	Telephonic telegraphs, electric	Jan. 2, 1883
269,884	Rogers, J. H.	Telephonic telegraphs, magnetic	Jan. 2, 1883
269,888	Silvey, W. L.	Motors	Jan. 2, 1883
269,932	Higgs, P. and Courtenay, W.	Insulators	Jan. 2, 1883
269,937	Hussey, C. A.	Lights, systems and appliances	Jan. 2, 1883
269,938	Hussey, C. A.	Lights, arc	Jan. 2, 1883

No.	NAME.	CLASS.	DATE.
269,939	Hussey, C. A	Lights, arc	Jan. 2, 1883
269,960	Reeve, T.	Thermostats	Jan. 2, 1883
270,000	Beesley, T.	Applications, tools and machines	Jan. 2, 1883
270,017	Chertemps, A. and Danden, L.	Magneto-electric	Jan. 2, 1883
270,058	Hamblet, J.	Clocks	Jan. 2, 1883
270,125	Richards, J. E.	Recorders	Jan. 2, 1883
270,136	Shaw, G. E.	Telephonic telegraphs, electric	Jan. 2, 1883
270,186	Finney, J. R.	Locomotion	Jan. 2, 1883
270,187	Finney, J. R.	Dental instruments	Jan. 2, 1883
270,209	Dickerson, E. N., jr., and Curtis, C. G.	Locomotion	Jan. 9, 1883
270,213	Foote, T. M.	Telegraphs, perforating	Jan. 9, 1883
270,230	Lewis, J.	Magneto-electric	Jan. 9, 1883
270,236	Matthiessen, F. O.	Telegraphs, fire.	Jan. 9, 1883
270,248	Parsons, A. S.	Car-brakes	Jan. 9, 1883
270,305	Gray, J.	Railway-signals	Jan. 9, 1883
270,325	McTighe, J. J. and T. J.	Magneto-electric	Jan. 9, 1883
270,326	McTighe, T. J.	Telephonic telegraphs, systems	Jan. 9, 1883
270,352	Van Depoele, C. J.	Regulators	Jan. 9, 1883
270,361	Allen, P. R.	Lights, arc	Jan. 9, 1883
270,379	Brandon, J. H.	Lightning-rods	Jan. 9, 1883
270,438	Jacques, W. W.	Connectors	Jan. 9, 1883
270,449	Martin, S. and Richards, J. F.	Lights, arc	Jan. 9, 1883
270,457	Millar, A.	Magneto-electric	Jan. 9, 1883
270,478	Pumphrey, H. F.	Conductors	Jan. 9, 1883
270,491	Seymour, H. A.	Lights, arc	Jan. 9, 1883
270,500	Stearns, J. M., jr.	Batteries, secondary, applications	Jan. 9, 1883
270,518	Vander Weyde, P. H.	Magneto-electric	Jan. 9, 1883
270,522	Watson, T. A.	Telephonic telegraphs, systems	Jan. 9, 1883
270,533	Willson, R. W.	Clocks	Jan. 9, 1883
270,551	Mackenzie, J.	Batteries, galvanic	Jan. 9, 1883
270,556	Randall, C. A.	Telephonic telegraphs, systems	Jan. 9, 1883
270,639	Conklin, J. L., jr.	Clocks	Jan. 16, 1883
270,643	Dowens, H.	Thermostats	Jan. 16, 1883
270,652	Farren, W. D.	Keys	Jan. 16, 1883
270,674	Hunt, W. L.	Telegraphs, railway-car.	Jan. 16, 1883
270,676	Hussey, C. A.	Lights, arc	Jan. 16, 1883
270,702	Scrivanow, G.	Batteries, galvanic	Jan. 16, 1883
270,725	Beardslee, G. W.	Lights, arc	Jan. 16, 1883
270,734	Buell, C. E.	Batteries, secondary, applications	Jan. 16, 1883
270,735	Buell, C. E.	do	Jan. 16, 1883
270,752	Crawford, W. A.	Telephonic telegraphs, electric	Jan. 16, 1883
270,767	Edwards, E. A.	Keys	Jan. 16, 1883
270,774	Foote, T. M.	Telegraphs, perforating	Jan. 16, 1883
270,775	Foote, T. M.	Morse registers	Jan. 16, 1883
270,777	Freeman, W. K.	Magneto-electric	Jan. 16, 1883
270,778	Freeman, W. K.	Batteries, secondary	Jan. 16, 1883
270,779	Freeman, W. P.	Magneto-electric	Jan. 16, 1883
270,780	Freeman, W. P.	do	Jan. 16, 1883
270,781	Freeman, W. P.	do	Jan. 16, 1883
270,806	Jobbins, W. F.	Lights, arc	Jan. 16, 1883
270,848	Rosebrugh, A. M.	Telephonic telegraphs, mechanical	Jan. 16, 1883
270,867	Westinghouse, G., jr.	Railway-signals	Jan. 16, 1883
270,884	Berliner, E.	Batteries, secondary	Jan. 23, 1883
270,907	McCausland, W. J.	Telegraphs, printing	Jan. 23, 1883
270,945	Gilliland, E. T.	Magneto-electric, hand-machines	Jan. 23, 1883
270,954	Jürgensen, C. P.	Lights, arc	Jan. 23, 1883
270,990	Selden, C.	Telegraphs, quadruplex	Jan. 23, 1883
271,029	Brown, W.	Lightning-rods	Jan. 23, 1883
271,042	Curtis, C. G. and Crocker, F. B.	Locomotion	Jan. 23, 1883
271,059	Gifford, A. T.	Lights, arc	Jan. 23, 1883
271,131	Ruebel, C. A. E.	Alarms, burglar	Jan. 23, 1883
271,140	Shaw, W. A.	Lights, incandescent	Jan. 23, 1883
271,169	Waterhouse, A. G.	Magneto-electric	Jan. 23, 1883
271,171	Weston, E.	Lights, incandescent	Jan. 23, 1883
271,172	Weston, E.	Lights, arc	Jan. 23, 1883
271,173	Weston, E.	do	Jan. 23, 1883
271,175	Wheeler, S. S., Curtis, C. G. and Crocker, F. B.	Motors	Jan. 23, 1883
271,188	Bartlett, S. H. and Waite, H. E.	Telephonic telegraphs, magnetic	Jan. 23, 1883
271,262	Patterson, W. R.	Conductors	Jan. 30, 1883
271,271	Rhoades, L.	Magnetic-locks	Jan. 30, 1883
271,279	Scribner, C. E.	Telephonic telegraphs, systems	Jan. 30, 1883
271,280	Scribner, C. E.	do	Jan. 30, 1883
271,299	Barrett, J. A.	Batteries, galvanic	Jan. 30, 1883
271,302	Bernstein, A.	Lights, incandescent	Jan. 30, 1883
271,324	Farrington, G. K. and H. C.	Telephonic telegraphs, mechanical	Jan. 30, 1883
271,347	Mautner, L.	Clocks	Jan. 30, 1883
271,395	Amet, E. H.	Lights, arc	Jan. 30, 1883

No.	NAME.	CLASS.	DATE.
271,456	Hochhausen, W.	Lights, arc.	Jan. 30, 1883
271,457	Hochhausen, W.	do	Jan. 30, 1883
271,458	Hochhausen, W.	do	Jan. 30, 1883
271,502	Millar, A.	Motors	Jan. 30, 1883
271,513	Randall, C. A.	Telephonic telegraphs, systems	Jan. 30, 1883
271,548	Trott, S. and Hamilton, F. A.	Conductors	Jan. 30, 1883
271,560	Willson, R. W.	Circuit-closers	Jan. 30, 1883
271,576	Finney, J. R.	Lights, arc	Jan. 30, 1883
271,597	Bulen, G. F.	Telegraphs, fire	Feb. 6, 1883
271,598	Bulen, G. F.	do	Feb. 6, 1883
271,610	Dean, E. C.	Telephonic telegraphs, systems	Feb. 6, 1883
271,613	Edison, T. A.	Lights, incandescent	Feb. 6, 1883
271,615	Edison, T. A.	Regulators	Feb. 6, 1883
271,616	Edison, T. A.	do	Feb. 6, 1883
271,628	Haid, A.	Batteries, secondary	Feb. 6, 1883
271,654	Ott, J. F.	Regulators	Feb. 6, 1883
271,707	Hess, A. T.	Annunciators	Feb. 6, 1883
271,721	Low, J. B.	Car-brakes	Feb. 6, 1883
271,732	Néзераux, C. P.	Batteries, secondary	Feb. 6, 1883
271,733	Patee, T. H. and Ridge, T. D.	Lightning-rods	Feb. 6, 1883
271,739	Reed, A.	Lights, systems and appliances	Feb. 6, 1883
271,750	Thomas, J. D.	Conductors	Feb. 6, 1883
271,783	Buell, C. E.	Telegraphs, fire	Feb. 6, 1883
271,805	Crockett, C. H.	Gas-lighting	Feb. 6, 1883
271,816	Dudley, W. L. and Rapp, C. F.	Lights, arc	Feb. 6, 1883
271,825	Fiske, H. G.	Conductors	Feb. 6, 1883
271,832	Gardner, P. G., jr., Le Roy, J. W. and Tinker, G. K.	do	Feb. 6, 1883
271,878	Loring, C. T. and Pierce, G. W.	Telephonic telegraphs, magnetic	Feb. 6, 1883
271,880	Maloney, J. A.	Batteries, secondary	Feb. 6, 1883
271,882	Marley, J. W.	Telegraphs, railway-car	Feb. 6, 1883
271,903	Nichols, A. S.	Telephonic telegraphs, details	Feb. 6, 1883
271,904	Nicolaisen, E.	Motors	Feb. 6, 1883
271,906	Nolf, A. L.	Separators	Feb. 6, 1883
271,913	Perrin, T. J.	Telephonic telegraphs, systems	Feb. 6, 1883
271,914	Perrin, T. J.	do	Feb. 6, 1883
271,924	Schoettel, E. A.	Telephonic telegraphs, electric	Feb. 6, 1883
271,928	Seeley, C. A.	Magneto-electric	Feb. 6, 1883
271,947	Thomson, E.	do	Feb. 6, 1883
271,948	Thomson, E.	Regulators	Feb. 6, 1883
271,958	Waters, W. T.	Telegraphs, railway-car	Feb. 6, 1883
271,972	Baxter, W., jr.	Magneto-electric	Feb. 6, 1883
271,979	Gordon, E.	do	Feb. 6, 1883
271,991	Rosebrook, F.	Applications, general	Feb. 6, 1883
271,992	Rosebrugh, A. M.	Batteries, galvanic	Feb. 6, 1883
271,994	Steward, D. M.	Conductors	Feb. 6, 1883
272,004	Warren, H. J.	Gas-lighting	Feb. 6, 1883
272,017	Atwood, J. E.	Lights, arc	Feb. 13, 1883
272,034	Edison, T. A.	Telephonic telegraphs, electric	Feb. 13, 1883
272,058	Kauffer, T. L. and Serson, J.	Batteries, galvanic	Feb. 13, 1883
272,069	Mace, T.	Insulators	Feb. 13, 1883
272,099	Strack, C. F.	Railway-signals	Feb. 13, 1883
272,100	Sweet, D. F.	Clocks	Feb. 13, 1883
272,125	Diehl, P.	Lights, incandescent	Feb. 13, 1883
272,130	Etève, E. and Lallement, C. C.	Applications, tools and machines	Feb. 13, 1883
272,142	Le Grande, W. W.	Railway-signals	Feb. 13, 1883
272,144	McGinnis, W. T.	Applications, tools and machines	Feb. 13, 1883
272,169	Stieringer, L.	Lights, systems and appliances	Feb. 13, 1883
272,187	Ball, C. E.	Applications, tools and machines	Feb. 13, 1883
272,210	Cochran, T.	Relays and sounders	Feb. 13, 1883
272,221	Du Bois, J. S.	Underground lines	Feb. 13, 1883
272,234	Gilliland, E. T.	Magneto-electric, hand-machines	Feb. 13, 1883
272,256	Houston, E. J.	Magneto-electric	Feb. 13, 1883
272,262	Keith, N. S.	Lights, arc	Feb. 13, 1883
272,276	Le Grande, W. W.	Railway-signals	Feb. 13, 1883
272,329	Rose, A. W. and Cheever, C. A.	Telephonic telegraphs, magnetic	Feb. 13, 1883
272,353	Thomson, E.	Lights, arc	Feb. 13, 1883
272,355	Tomlinson, B. W. and Balch, A.	Applications, tools and machines	Feb. 13, 1883
272,362	Weston, E.	Regulators	Feb. 13, 1883
272,363	Weston, E.	do	Feb. 13, 1883
272,364	Weston, E.	do	Feb. 13, 1883
272,365	Weston, E.	do	Feb. 13, 1883
272,366	Weston, E.	Magneto-electric	Feb. 13, 1883
272,367	Weston, E.	Lights, arc	Feb. 13, 1883
272,391	Thiollier, A.	Separators	Feb. 13, 1883
272,410	Campbell, W. M.	Underground lines	Feb. 20, 1883
272,411	Campbell, W. M.	do	Feb. 20, 1883

No.	NAME.	CLASS.	DATE.
272,441	Hunter, R. M.	Conductors	Feb. 20, 1883
272,464	Orcutt, E. L.	Railway-signals	Feb. 20, 1883
272,493	Stebbins, J. M.	Batteries, galvanic	Feb. 20, 1883
272,505	Woelk, E. A.	Telephonic telegraphs, systems	Feb. 20, 1883
272,524	Brott, G.	Connectors	Feb. 20, 1883
272,645	Casey, T. A.	Transmitters	Feb. 20, 1883
272,659	Cowles, A. A.	Conductors	Feb. 20, 1883
272,660	Cowles, A. A.	do	Feb. 20, 1883
272,724	Lowne, R. M.	Indicators	Feb. 20, 1883
272,774	Rittenhouse, N. M.	Conductors	Feb. 20, 1883
272,792	Strohm, S. D.	do	Feb. 20, 1883
272,799	Tucker, R. H.	Regulators	Feb. 20, 1883
272,803	Vankeerberghen, V.	Telegraphs, fire	Feb. 20, 1883
272,811	Wetmore, J. A.	Lights, arc	Feb. 20, 1883
272,833	Goodfellow, J. T.	Underground lines	Feb. 20, 1883
272,839	Knight, J. K. and Baker, W. H.	Railway-signals	Feb. 20, 1883
272,862	Currier, J. B.	Telephonic telegraphs, calls	Feb. 27, 1883
272,865	Drawbaugh, D.	Telephonic telegraphs, electric	Feb. 27, 1883
272,866	Drawbaugh, D.	Telephonic telegraphs, magnetic	Feb. 27, 1883
272,867	Dyer, J. W.	Lightning-arresters	Feb. 27, 1883
272,893	Martin, M.	Indicators	Feb. 27, 1883
272,904	Russell, C. S.	Therapeutics, body-wear	Feb. 27, 1883
272,920	Thomson, E.	Lights, arc	Feb. 27, 1883
273,011	Barker, R.	Separators	Feb. 27, 1883
273,033	Craue, M. G.	Annunciators	Feb. 27, 1883
273,049	Finn, J. L.	Lightning-arresters	Feb. 27, 1883
273,079	Higgins, O. and W. S., and Grim, J.	Telephonic telegraphs, mechanical	Feb. 27, 1883
273,092	Jackson, A.	Indicators	Feb. 27, 1883
273,179	Spang, H. W.	Lightning-rods	Feb. 27, 1883
273,208	Wheeler, S. S.	Applications, general	Feb. 27, 1883
273,231	Happersberger, J.	Clocks	Feb. 27, 1883
273,259	Coolidge, E. C.	Connectors	Mar. 6, 1883
273,264	Davis, W. E.	Relays and sounders	Mar. 6, 1883
273,269	Frost, E. J.	Applications, tools and machines	Mar. 6, 1883
273,291	Levy, M.	Regulators	Mar. 6, 1883
273,295	Lytle, H. B.	Underground lines	Mar. 6, 1883
273,305	Plankinton, W.	do	Mar. 6, 1883
273,309	Rae, J.	Separators	Mar. 6, 1883
273,324	Thomas, J. M.	Electrolysis	Mar. 6, 1883
273,329	Weston, E.	Regulators	Mar. 6, 1883
273,336	Allen, G. D.	Lights, arc	Mar. 6, 1883
273,349	Dowens, H.	Thermostats	Mar. 6, 1883
273,351	Fillis, G. N.	Recorders	Mar. 6, 1883
273,366	Kelso, J. S., jr.	Lights, incandescent	Mar. 6, 1883
273,374	Lockwood, T. D.	Telegraphs, fire	Mar. 6, 1883
273,377	Means, C. J.	Railway-signals	Mar. 6, 1883
273,406	Thomson, E.	Magneto-electric	Mar. 6, 1883
273,429	Allen, P. R.	Conductors	Mar. 6, 1883
273,467	Classeu, A.	Electrolysis	Mar. 6, 1883
273,485	Edison, T. A.	Lights, incandescent	Mar. 6, 1883
273,486	Edison, T. A.	do	Mar. 6, 1883
273,487	Edison, T. A.	Regulators	Mar. 6, 1883
273,488	Edison, T. A.	do	Mar. 6, 1883
273,489	Edison, T. A.	Locomotion	Mar. 6, 1883
273,490	Edison, T. A.	do	Mar. 6, 1883
273,491	Edison, T. A.	Regulators	Mar. 6, 1883
273,492	Edison, T. A.	Batteries, secondary	Mar. 6, 1883
273,493	Edison, T. A.	Regulators	Mar. 6, 1883
273,494	Edison, T. A.	Conductors	Mar. 6, 1883
273,513	Hadden, W.	Railway-signals	Mar. 6, 1883
273,514	Hadden, W.	do	Mar. 6, 1883
273,515	Hadden, W.	do	Mar. 6, 1883
273,516	Hadden, W.	do	Mar. 6, 1883
273,517	Hadden, W.	do	Mar. 6, 1883
273,554	Lea, H.	Lights, incandescent	Mar. 6, 1883
273,558	Livermore, J. P.	Railway-signals	Mar. 6, 1883
273,563	Mackenzie, J. U.	Annunciators	Mar. 6, 1883
273,565	Macpherson, D. J.	Car-brakes	Mar. 6, 1883
273,592	Patterson, W. R.	Underground lines	Mar. 6, 1883
273,593	Patterson, W. R.	Conductors	Mar. 6, 1883
273,598	Platt, W. S.	Batteries, galvanic	Mar. 6, 1883
273,622	Smith, A. T.	Applications, general	Mar. 6, 1883
273,634	Sweet, D. F.	Clocks	Mar. 6, 1883
273,639	Tisdale, C. D.	Railway-signals	Mar. 6, 1883
273,643	Trouvelot, G. H. E.	Induction-coils	Mar. 6, 1883
273,648	Warner, J. C.	Connectors	Mar. 6, 1883
273,704	Bernstein, A.	Lights, incandescent	Mar. 13, 1883

No.	NAME.	CLASS.	DATE.
273,714	Edison, T. A	Magneto-electric, hand-machines	Mar. 13, 1883
273,728	Hamilton, E. M	Relays and sounders	Mar. 13, 1883
273,739	Jablochkoff, P	Batteries, galvanic	Mar. 13, 1883
273,751	McIntosh, L. D	do	Mar. 13, 1883
273,810	Burnside, W. J	Telegraphs, printing	Mar. 13, 1883
273,828	Edison, T. A	Underground lines	Mar. 13, 1883
273,855	Keith, N. S.	Batteries, secondary	Mar. 13, 1883
273,859	Kruesi, J	Underground lines	Mar. 13, 1883
273,869	McMahon, W. and T. G	do	Mar. 13, 1883
273,887	Petrequin, L	Telegraph-poles	Mar. 13, 1883
273,888	Piette, L. and Krizik, F	Lights, arc	Mar. 13, 1883
274,023	Park, H. S	Car-brakes	Mar. 13, 1883
274,067	Weeks, A	Boat-steering	Mar. 13, 1883
274,074	Woodbury, C. J. H	Magneto-electric, hand-machines	Mar. 13, 1883
274,075	Woodworth, R. D	Telephonic telegraphs, electric	Mar. 13, 1883
274,082	Brush, C. F	Batteries, secondary	Mar. 13, 1883
274,083	Cable, J. A	Separators	Mar. 13, 1883
274,101	Atwater, J. B	Motors	Mar. 20, 1883
274,110	De Lalande, F. and Chaperon, G	Batteries, galvanic	Mar. 20, 1883
274,112	D'Infreville, G	Telegraphs, duplex	Mar. 20, 1883
274,150	Swan, F. A. and Bosworth, C. B.	Lights, systems and appliances	Mar. 20, 1883
274,151	Swan, F. A. and Bosworth, C. B.	do	Mar. 20, 1883
274,181	Delany, P. B	do	Mar. 20, 1883
274,212	McLellan, W. W	Railway-signals	Mar. 20, 1883
274,213	Meyer, H. R	Underground lines	Mar. 20, 1883
274,246	Ader, C	Telephonic telegraphs, electric	Mar. 20, 1883
274,257	Bawsel, E. E	Applications, tools and machines	Mar. 20, 1883
274,290	Edison, T. A	Lights, systems and appliances	Mar. 20, 1883
274,291	Edison, T. A	Lights, incandescent	Mar. 20, 1883
274,292	Edison, T. A	Batteries, secondary	Mar. 20, 1883
274,293	Edison, T. A	Lights, incandescent	Mar. 20, 1883
274,294	Edison, T. A	do	Mar. 20, 1883
274,295	Edison, T. A	do	Mar. 20, 1883
274,296	Edison, T. A	do	Mar. 20, 1883
274,297	Elfering, J. H	Lights, arc	Mar. 20, 1883
274,300	Field, S. D	Telegraphs, printing	Mar. 20, 1883
274,323	Himmer, V	Clocks	Mar. 20, 1883
274,324	Himmer, V	do	Mar. 20, 1883
274,325	Himmer, V	do	Mar. 20, 1883
274,352	Maloney, J. A	Telephonic telegraphs, magnetic	Mar. 20, 1883
274,353	Maloney, J. A	Telephonic telegraphs, electric	Mar. 20, 1883
274,370	Perkins, C. G	Lights, arc	Mar. 20, 1883
274,371	Perkins, C. G	Regulators	Mar. 20, 1883
274,373	Pitkin, J	Batteries, secondary	Mar. 20, 1883
274,413	Thomson, E	Lights, arc	Mar. 20, 1883
274,416	Van Hoevenbergh, H	Telegraphs, printing	Mar. 20, 1883
274,417	Van Hoevenbergh, H	Telegraphs, dynamo	Mar. 20, 1883
274,424	Webb, B. W	Recorders	Mar. 20, 1883
274,427	Weston, E	Lights, incandescent	Mar. 20, 1883
274,445	Gray, A. W	Clocks	Mar. 20, 1883
274,452	Lowe, H	Switches	Mar. 20, 1883
274,474	Fennerty, J. M	Indicators	Mar. 27, 1883
274,505	Lighthall, A. H	Underground lines	Mar. 27, 1883
274,522	Sloan, A	do	Mar. 27, 1883
274,552	Bawsel, E. E	Telephonic telegraphs, systems	Mar. 27, 1883
274,562	Chinnock, C. E	Conductors	Mar. 27, 1883
274,564	Coon, J. H	Lightning-rods	Mar. 27, 1883
274,573	De Redon, C. F	Bells	Mar. 27, 1883
274,576	Edison, T. A	Telephonic telegraphs, electric	Mar. 27, 1883
274,577	Edison, T. A	do	Mar. 27, 1883
274,602	Hibbard, A. S	Telephonic telegraphs, systems	Mar. 27, 1883
274,611	Johnstone, W. H	Underground lines	Mar. 27, 1883
274,622	Martin, J. F	Conductors	Mar. 27, 1883
274,652	Perez, P. E	Telegraphs, automatic	Mar. 27, 1883
274,653	Perkins, C. G	Lights, systems and appliances	Mar. 27, 1883
274,654	Perkins, C. G	Lights, incandescent	Mar. 27, 1883
274,665	Scott, G. B	Telegraphs, printing	Mar. 27, 1883
274,699	Barker, G. F	Conductors	Mar. 27, 1883
274,710	Brentano, S	Underground lines	Mar. 27, 1883
274,744	Du Shane, J	Lights, arc	Mar. 27, 1883
274,748	Field, S. D	Telegraphs, printing	Mar. 27, 1883
274,802	Martin, A. J	Batteries, secondary	Mar. 27, 1883
274,818	Philips, W. J. and Kitson, G. L	Underground lines	Mar. 27, 1883
274,821	Reiff, W. H	Insulators	Mar. 27, 1883
274,845	Thompson, F. H	Conductors	Mar. 27, 1883
274,852	Thurber, E. S	Applications, general	Mar. 27, 1883
274,857	Vail, T. N	Telephonic telegraphs, systems	Mar. 27, 1883

No.	NAME.	CLASS.	DATE.
274,865	Wallace, S. J	Batteries, secondary	Mar. 27, 1883
274,882	Brown, F. H	Applications, general	Mar. 27, 1883
274,899	Blackall, B. F. and Decker, J. C	Batteries, galvanic	Apr. 3, 1883
274,904	Brush, C. F	Lights, arc	Apr. 3, 1883
274,905	Brush, C. F	Batteries, secondary	Apr. 3, 1883
274,916	Dalzell, J. A	Lights, arc	Apr. 3, 1883
274,959	Murdock, G. J	Lights, systems and appliances	Apr. 3, 1883
274,997	Van Choate, S. F	Lights, arc	Apr. 3, 1883
274,999	Waterhouse, F. G	do	Apr. 3, 1883
275,005	Wood, F. B	Telegraphs, fire	Apr. 3, 1883
275,006	Wood, F. B	do	Apr. 3, 1883
275,023	Clay, H	Underground lines	Apr. 3, 1883
275,039	Günther, G. A	Applications, tools and machines	Apr. 3, 1883
275,123	Blumenberg, I. R	Conductors	Apr. 3, 1883
275,168	Edwards, E. A	Lights, arc	Apr. 3, 1883
275,169	Edwards, E. A	Magneto-electric	Apr. 3, 1883
275,170	Edwards, E. A	Lights, arc	Apr. 3, 1883
275,171	Edwards, E. A	do	Apr. 3, 1883
275,172	Edwards, E. A	do	Apr. 3, 1883
275,173	Edwards, E. A	do	Apr. 3, 1883
275,174	Edwards, E. A	do	Apr. 3, 1883
275,178	Field, S. D	Telephonic telegraphs, magnetic	Apr. 3, 1883
275,179	Field, S. D	Applications, tools and machines	Apr. 3, 1883
275,180	Field, S. D	Connectors	Apr. 3, 1883
275,181	Field, S. D	Telegraphs, quadruplex	Apr. 3, 1883
275,182	Finney, J. R	Lights, arc	Apr. 3, 1883
275,183	Finney, J. R	do	Apr. 3, 1883
275,185	Gardanier, G. W	Telegraphs, quadruplex	Apr. 3, 1883
275,195	Green, J. H	Underground lines	Apr. 3, 1883
275,233	Lynch, J	do	Apr. 3, 1883
275,237	Marcus, S	Magneto-electric	Apr. 3, 1883
275,255	Nicholson, H. C	Railway-signals	Apr. 3, 1883
275,289	Thomson, E	Lightning-arresters	Apr. 3, 1883
275,290	Thomson, E	do	Apr. 3, 1883
275,296	Vail, T. N	Telephonic telegraphs, systems	Apr. 3, 1883
275,310	Wilson, E. L	Telephonic telegraphs, electric	Apr. 3, 1883
275,334	Fenn, J. E	Telegraphs, duplex	Apr. 3, 1883
275,339	Johnson, A. F. and F. B.	Telegraphs, automatic	Apr. 3, 1883
275,345	Allen, J. B	Lights, arc	Apr. 10, 1883
275,347	Atkinson, P	Friction-generators	Apr. 10, 1883
275,362	Coy, G. W	Telephonic telegraphs, systems	Apr. 10, 1883
275,378	Haddock, W	Underground lines	Apr. 10, 1883
275,387	Hunter, R. M	do	Apr. 10, 1883
275,392	Keegan, V. E	Magneto-electric	Apr. 10, 1883
275,399	Martin, J. F	Conductors	Apr. 10, 1883
275,407	Philips, W. J. and Kitson, G. L	do	Apr. 10, 1883
275,408	Philips, W. J. and Kitson, G. L	do	Apr. 10, 1883
275,420	Scribner, C. E	Telephonic telegraphs, systems	Apr. 10, 1883
275,422	Shelbourne, S. F	Conductors	Apr. 10, 1883
275,423	Shelbourne, S. F	Underground lines	Apr. 10, 1883
275,424	Shelbourne, S. F	do	Apr. 10, 1883
275,425	Shelbourne, S. F	do	Apr. 10, 1883
275,433	Stevens, E. G	Keys	Apr. 10, 1883
275,440	Turner, T. G	Lights, arc	Apr. 10, 1883
275,510	Murdock, G. J	do	Apr. 10, 1883
275,549	Van Depoele, C. J	Magneto-electric	Apr. 10, 1883
275,599	Crandell, W. C., jr	Railway-signals	Apr. 10, 1883
275,600	Cummings, C	Indicators	Apr. 10, 1883
275,611	Eckert, W. H., Seely, J. A. and Eckert, E. A	Telephonic telegraphs, systems	Apr. 10, 1883
275,612	Edison, T. A	Lights, incandescent	Apr. 10, 1883
275,613	Edison, T. A	do	Apr. 10, 1883
275,701	Popp, V	Clocks	Apr. 10, 1883
275,730	Swan, A	Lights, incandescent	Apr. 10, 1883
275,748	Bergmann, S	Conductors	Apr. 10, 1883
275,749	Bergmann, S	Lights, systems and appliances	Apr. 10, 1883
275,752	Buell, C. E	Telegraphs, fire	Apr. 10, 1883
275,776	Kruesi, J	Underground lines	Apr. 10, 1883
275,797	Alexander, W. A	Batteries, galvanic	Apr. 17, 1883
275,842	Molera, E. J. and Cebrian, J. C	Regulators	Apr. 17, 1883
275,845	Odell, J. B	Batteries, galvanic	Apr. 17, 1883
275,859	Robertson, J	Conductors	Apr. 17, 1883
275,879	Bedinger, G. M., jr	Telegraphs, railway-car	Apr. 17, 1883
275,985	Brush, C. F	Batteries, secondary	Apr. 17, 1883
275,986	Brush, C. F	do	Apr. 17, 1883
276,021	Gassett, O	Railway-signals	Apr. 17, 1883
276,024	Gilliland, J. F	Magneto-electric, hand-machines	Apr. 17, 1883
276,038	Heudrickson, S. C	Railway-signals	Apr. 17, 1883

No.	NAME.	CLASS.	DATE.
276,063	Morava, W.	Magneto-electric	Apr. 17, 1883
276,078	Rittig, J.	Therapeutics, body-wear	Apr. 17, 1883
276,087	Smithers, J. P.	Relays and sounders	Apr. 17, 1883
276,099	Van Depoele, C. J.	Batteries, secondary	Apr. 17, 1883
276,133	Clingman, T. L.	Lights, incandescent	Apr. 17, 1883
276,136	Drawbaugh, D.	Magneto-electric, hand-machines	Apr. 17, 1883
276,137	Drawbaugh, D.	Telephonic telegraphs, electric	Apr. 17, 1883
276,138	Gassett, O. and Fisher, I.	Railway-signals	Apr. 17, 1883
276,155	Brush, C. F.	Batteries, secondary	Apr. 24, 1883
276,184	Kinsman, F. E.	Telephonic telegraphs, systems	Apr. 24, 1883
276,190	Mehaffey, J. A.	Underground lines	Apr. 24, 1883
276,194	Roberts, H.	Magneto-electric	Apr. 24, 1883
276,216	Blake, F.	Switches	Apr. 24, 1883
276,232	Edison, T. A.	Regulators	Apr. 24, 1883
276,233	Edison, T. A.	Magneto-electric	Apr. 24, 1883
276,263	McLean, C. W.	Switches	Apr. 24, 1883
276,274	Peck, C. C. and Chapman, W. H.	Magneto-electric	Apr. 24, 1883
276,275	Peck, C. C. and Chapman, W. H.	do	Apr. 24, 1883
276,285	Rhodes, T. H.	Gas-lighting	Apr. 24, 1883
276,286	Rhodes, T. H.	Alarms	Apr. 24, 1883
276,300	Starr, E. T. and E. E.	Batteries, secondary	Apr. 24, 1883
276,301	Starr, E. T. and E. E.	do	Apr. 24, 1883
276,328	Avery, E. M.	Lights, systems and appliances	Apr. 24, 1883
276,348	Brush, C. F.	Batteries, secondary	Apr. 24, 1883
276,390	Gravier, A. I.	Magneto-electric	Apr. 24, 1883
276,415	Hurlbut, D. N.	Underground lines	Apr. 24, 1883
276,451	Monfort, E. A.	Applications, general	Apr. 24, 1883
276,465	Provost, J. M.	Annunciators	Apr. 24, 1883
276,472	Rittenhouse, N. M. and Locke, M. W.	Underground lines	Apr. 24, 1883
276,486	Shrieves, C. D. and Cook, J. E.	do	Apr. 24, 1883
276,565	Daft, L.	Lights, arc	May 1, 1883
276,566	Daft, L.	do	May 1, 1883
276,567	Daft, L.	do	May 1, 1883
276,568	Daft, L.	Magneto-electric	May 1, 1883
276,569	Daft, L.	Regulators	May 1, 1883
276,571	Diehl, P.	Lights, incandescent	May 1, 1883
276,604	Lakin, J. A.	Telephonic telegraphs, calls	May 1, 1883
276,630	Robertson, J. H.	Telephonic telegraphs, electric	May 1, 1883
276,631	Robertson, J. H.	do	May 1, 1883
276,632	Robertson, J. H.	do	May 1, 1883
276,702	Moses, O. A.	Lights, arc	May 1, 1883
276,703	Moses, O. A.	do	May 1, 1883
276,704	Moses, O. A.	do	May 1, 1883
276,705	Moses, O. A.	do	May 1, 1883
276,723	Shaw, G. E.	Telephonic telegraphs, magnetic	May 1, 1883
276,724	Smith, J. J. C.	Conductors	May 1, 1883
276,725	Smith, J. J. C.	do	May 1, 1883
276,739	Weaver, G. L.	Annunciators	May 1, 1883
276,757	Bentley, E. M. and Knight, W. H.	Underground lines	May 1, 1883
276,777	Cocheu, N. L.	Electrolysis	May 1, 1883
276,807	Hall, A. W.	Railway-signals	May 1, 1883
276,829	Knight, W. H. and Bentley, E. M.	Underground lines	May 1, 1883
276,839	Lewis, J. S.	Insulators	May 1, 1883
276,840	Lieberman, A. and Robb, W.	Heaters	May 1, 1883
276,880	Reed, T. S.	Conductors	May 1, 1883
276,891	Sanderson, J. G.	do	May 1, 1883
276,904	Shaffer, W. C.	Railway-signals	May 1, 1883
276,916	Smith, W.	Conductors	May 1, 1883
276,924	Swan, A.	Lights, incandescent	May 1, 1883
276,935	Torrey, D.	Car-brakes	May 1, 1883
276,936	Torrey, D.	do	May 1, 1883
276,938	Torrey, D.	do	May 1, 1883
276,953	Bentley, E. M.	Underground lines	May 1, 1883
276,954	Bentley, E. M.	do	May 1, 1883
276,960	Currier, J. B. and Rice, D. H.	Telephonic telegraphs, calls	May 1, 1883
276,974	Koyl, C. H.	Batteries, secondary	May 1, 1883
276,982	Swan, A.	Lights, systems and appliances	May 1, 1883
276,997	Barker, R.	Separators	May 8, 1883
277,007	Cohlman, W.	Underground lines	May 8, 1883
277,020	Frese, B.	Telegraphs, fire	May 8, 1883
277,036	Hyde, J. B.	Underground lines	May 8, 1883
277,053	Odell, J. B.	Gas-lighting	May 8, 1883
277,069	Seeley, C. A.	Magneto-electric	May 8, 1883
277,087	Varley, C. F.	Applications, tools and machines	May 8, 1883
277,089	Weiller, L.	Conductors	May 8, 1883
277,104	Ballou, G. F.	Clocks	May 8, 1883
277,112	Clay, H.	Telephonic telegraphs, magnetic	May 8, 1883

No.	NAME.	CLASS.	DATE.
277,119	Daft, L	Magneto-electric	May 8, 1883
277,145	Lothrop, C. H	Switches	May 8, 1883
277,166	Shedlock, A	Lights, arc	May 8, 1883
277,167	Shedlock, A	do	May 8, 1883
277,168	Shedlock, A	Lights, systems and appliances	May 8, 1883
277,179	Weston, E	Indicators	May 8, 1883
277,198	Baxter, M. L	Telephonic telegraphs, electric	May 8, 1883
277,199	Baxter, M. L	Telephonic telegraphs, magnetic	May 8, 1883
277,237	Craig, J. A. I	Magneto-electric	May 8, 1883
277,238	Craig, J. A. I	do	May 8, 1883
277,241	Day, W. G	Thermostats	May 8, 1883
277,248	Edgerton, N. H	Conductors	May 8, 1883
277,286	Humans, W	Telephonic telegraphs, systems	May 8, 1883
277,335	Patterson, W. R	Underground lines	May 8, 1883
277,349	Rogers, J. II	Telegraphs, automatic	May 8, 1883
277,358	Shaw, F. A. and Judkins, H. E	Telegraphs, railway-car	May 8, 1883
277,366	Smith, W	Conductors	May 8, 1883
277,374	Strohm, S. D	Underground lines	May 8, 1883
277,377	Tacy, S. H	Lights, systems and appliances	May 8, 1883
277,390	Weis, J	Railway-signals	May 8, 1883
277,394	Whitney, E. R	Batteries, secondary	May 8, 1883
277,445	Boettcher, E	do	May 15, 1883
277,475	Foster, G. W	Motors	May 15, 1883
277,519	Smith, J. J. C	Conductors	May 15, 1883
277,528	Wright, A	do	May 15, 1883
277,536	Ball, F., jr	Lights, systems and appliances	May 15, 1883
277,569	Hunter, R. M	Telegraphs, railway-car	May 15, 1883
277,588	Marks, J	Underground lines	May 15, 1883
277,610	Rhodes, T. H	Gas-lighting	May 15, 1883
277,628	Sullivan, M	Magnetic-locks	May 15, 1883
277,640	Weston, E	Switches	May 15, 1883
277,641	Weston, E	Lights, systems and appliances	May 15, 1883
277,642	Weston, E	do	May 15, 1883
277,643	Weston, E	do	May 15, 1883
277,644	Weston, E	Magneto-electric	May 15, 1883
277,645	Weston, E	Lights, incandescent	May 15, 1883
277,646	Weston, E	do	May 15, 1883
277,731	Hopkinson, J	Meters	May 15, 1883
277,753	Logan, T	Motors	May 15, 1883
277,765	McKenney, A	Conductors	May 15, 1883
277,846	Maxim, H. S	Lights, systems and appliances	May 15, 1883
277,869	Bausch, E	do	May 22, 1883
277,945	Rosquist, G	Applications, general	May 22, 1883
277,965	Wells, J. O	Thermostats	May 22, 1883
277,990	Carlton, H. W	Railway-signals	May 22, 1883
278,009	Halkyard, W	Conductors	May 22, 1883
278,026	Lakin, J. A	Telephonic telegraphs, electric	May 22, 1883
278,028	Lobdell, A. C	Lightning-rods	May 22, 1883
278,076	Ball, C. E	Magneto-electric	May 22, 1883
278,087	Brisben, W. M	Underground lines	May 22, 1883
278,095	Clark, E	do	May 22, 1883
278,097	Collins, C	Connectors	May 22, 1883
278,119	Fuller, G. W	Magneto-electric	May 22, 1883
278,120	Fuller, G. W	do	May 22, 1883
278,121	Fuller, G. W	do	May 22, 1883
278,122	Fuller, G. W	do	May 22, 1883
278,159	Mäyrhofer, C. A	Clocks	May 22, 1883
278,221	Cary, J. H	Telephonic telegraphs, calls	May 22, 1883
278,233	Goodridge, J. C., jr	Conductors	May 22, 1883
278,277	Root, H. C. and Reilly, J. C	do	May 22, 1883
278,289	Strohm, S. D	do	May 22, 1883
278,293	Thomas, W. M	Lights, arc	May 22, 1883
278,304	Gravier, A. I	do	May 22, 1883
278,322	Dudley, W. J	Telephonic telegraphs, calls	May 29, 1883
278,346	Long, H. E	Connectors	May 29, 1883
278,351	McCoy, J. A	Telephonic telegraphs, systems	May 29, 1883
278,353	McElroy, W. J	Switches	May 29, 1883
278,355	Molera, E. J. and Cebrian, J. C	Lights, incandescent	May 29, 1883
278,357	Oram, J. M	Clocks	May 29, 1883
278,367	Scribner, C. E	Telephonic telegraphs, systems	May 29, 1883
278,411	Dickson, C. T	do	May 29, 1883
278,413	Edison, T. A	Regulators	May 29, 1883
278,414	Edison, T. A	do	May 29, 1883
278,415	Edison, T. A	Lights, incandescent	May 29, 1883
278,416	Edison, T. A	do	May 29, 1883
278,417	Edison, T. A	do	May 29, 1883
278,418	Edison, T. A	Magneto-electric	May 29, 1883

No.	NAME.	CLASS.	DATE.
278,419	Edison, T. A	Magneto-electric	May 29, 1883
278,465	Stieringer, L	Lights, systems and appliances	May 29, 1883
278,494	Breckenridge, H. W.	Telephonic telegraphs, systems	May 29, 1883
278,516	Delafield, A. F	Magneto-electric	May 29, 1883
278,535	Greenfield, E. T	Lights, systems and appliances	May 29, 1883
278,536	Greives, J	Conductors	May 29, 1883
278,565	Lembeke, R	Applications, general	May 29, 1883
278,613	Shaw, F. and Childs, W. A	Telephonic telegraphs, systems	May 29, 1883
278,627	Taaffe, F. X. and Koyl, C. H.	Underground lines	May 29, 1883
278,635	Townsend, W. E., jr	Conductors	May 29, 1883
278,638	Wallace, W	Batteries, secondary	May 29, 1883
278,640	Weston, E	Regulators	May 29, 1883
278,641	Weston, E	Magneto-electric	May 29, 1883
278,642	Weston, E	Lights, systems and appliances	May 29, 1883
278,679	Bosworth, C. B. and Swan, F. A	Lights, arc	June 5, 1883
278,750	Shaver, G. F	Telephonic telegraphs, mechanical	June 5, 1883
278,753	Smyth, T. A	Conductors	June 5, 1883
278,760	Atwater, J. B	Motors	June 5, 1883
278,777	Crowell, L. C	Recorders	June 5, 1883
278,778	Crowell, L. C	do	June 5, 1883
278,797	Ide, A. L	Lights, systems and appliances	June 5, 1883
278,811	McIntire, C	Conductors	June 5, 1883
278,832	Tihon, P	Lights, arc	June 5, 1883
278,846	Bailey, H. L	Clocks	June 5, 1883
278,881	Chapman, W. H	Switches	June 5, 1883
278,885	Cottrell, J. O	Conductors	June 5, 1883
278,886	Cottrell, J. O	do	June 5, 1883
278,898	Einbigler, R	Gas-lighting	June 5, 1883
278,940	Hadden, W	Railway-signals	June 5, 1883
278,946	Happersberger, J	Clocks	June 5, 1883
278,968	Huck, C	Conductors	June 5, 1883
278,976	Viger, J. LaB	Separators	June 5, 1883
278,983	Loryea, A. M. and Palmer, C. H	Magneto-electric	June 5, 1883
279,007	Peck, C. C. and Chapman, W. H	Motors	June 5, 1883
279,008	Peck, C. C. and Chapman, W. H	do	June 5, 1883
279,023	Sawyer, W. H	Circuit-closers	June 5, 1883
279,036	Spang, H. W	Motors	June 5, 1883
279,045	Thomas, W. M	do	June 5, 1883
279,046	Tomkins, C. T	Batteries, secondary	June 5, 1883
279,065	Wilson, J. C	Transmitters	June 5, 1883
279,103	Olmsted, J	Lights, arc	June 5, 1883
279,107	Rousseau, D	Circuit-closers	June 5, 1883
279,152	Guest, J. H	Lights, arc	June 12, 1883
279,189	Rogers, J. W	Conductors	June 12, 1883
279,193	Shoupe, W. S. and Buskirk, T	Alarms, burglar	June 12, 1883
279,224	Chassé, J. G	Lights, arc	June 12, 1883
279,239	Grau, H	Motors	June 12, 1883
279,274	Patterson, W. R	Connectors	June 12, 1883
279,289	Vail, T. N	Conductors	June 12, 1883
279,292	Waldorp, J. H. M	Recorders	June 12, 1883
279,315	Aronson, J. N	Therapeutics, electrodes	June 12, 1883
279,322	Brainerd, C. A	Applications, general	June 12, 1883
279,327	Bnell, C. E	Telegraphs	June 12, 1883
279,346	Cookson, N. C	Batteries, secondary	June 12, 1883
279,362	Edgerton, N. H	Magneto-electric	June 12, 1883
279,363	Edgerton, N. H	Lights, arc	June 12, 1883
279,371	Fox, St. G. L	Meters	June 12, 1883
279,392	Johnstone, W. H	Underground lines	June 12, 1883
279,399	Knowles, E. R. and Idell, F. E	Magneto-electric	June 12, 1883
279,400	Koyl, C. H.	Batteries, secondary	June 12, 1883
279,401	Lakin, J. A	Telephonic telegraphs, electric	June 12, 1883
279,422	O'Beirne, E. J	Lights, systems and appliances	June 12, 1883
279,471	Wilson, E. M	Telephonic telegraphs, systems	June 12, 1883
279,472	Wood, J. J	Lights, arc	June 12, 1883
279,476	Ball, R. E	Magneto-electric	June 12, 1883
279,483	Fisher, W. C	Alarms, burglar	June 12, 1883
279,512	Wood, J. J	Lights, arc	June 12, 1883
279,517	Ansot, H	do	June 19, 1883
279,524	Beaty, M	Applications, tools and machines	June 19, 1883
279,550	Essick, S. V	Telegraphs, printing	June 19, 1883
279,557	Flint, E., Jr	Connectors	June 19, 1883
279,574	Leayercraft, E. S	Applications, general	June 19, 1883
279,629	Applegate, E. W	Telegraphs, fire	June 19, 1883
279,634	Bogart, A. L	Circuit-closers	June 19, 1883
279,646	Hamilton, J. E	Underground lines	June 19, 1883
279,670	Smithers, J. P	Repeaters	June 19, 1883
279,712	Connolly, M. D	Lightning-arresters	June 19, 1883

No.	NAME.	CLASS.	DATE.
279,713	Connolly, M. D. and T. A.	Lightning-arresters	June 19, 1883
279,714	Connolly, M. D.	do	June 19, 1883
279,715	Connolly, M. D.	do	June 19, 1883
279,729	Field, S. D.	Telegraphs, printing	June 19, 1883
279,730	Field, S. D.	do	June 19, 1883
279,747	Hamlin, E. B.	Telephonic telegraphs, systems	June 19, 1883
279,811	Richter, C.	Lights, incandescent	June 19, 1883
279,824	Sheehy, R. J.	Lights, arc	June 19, 1883
279,825	Sheehy, R. J.	do	June 19, 1883
279,826	Sheehy, R. J.	Regulators	June 19, 1883
279,839	Starr, E. T.	Batteries, secondary	June 19, 1883
279,865	Field, S. D.	Telegraphs, printing	June 19, 1883
279,872	Kaufler, T. L. and Sersou, J.	Batteries, galvanic	June 19, 1883
279,878	Muybridge, E. J.	Applications, general	June 19, 1883
279,881	Palmer, G. E.	Therapeutics, body-wear	June 19, 1883
279,929	Farrington, DeW. C.	Railway-signals	June 26, 1883
279,934	Giel, F. S.	Lights, arc	June 26, 1883
279,946	Hazlett, F. B.	Annunciators	June 26, 1883
279,977	Parker, S.	Underground lines	June 26, 1883
280,028	Gardanier, G. W.	Telegraphs, duplex	June 26, 1883
280,039	Hopkinson, J. and Muirhead, A.	Magneto-electric	June 26, 1883
280,046	Knapp, S. H. and Adams, A. E.	Railway-signals	June 26, 1883
280,077	Parks, J. A. and Sheffield, G. V.	Telegraphs, printing	June 26, 1883
280,116	Barnard, D. G.	Telephonic telegraphs, systems	June 26, 1883
280,153	Eaton, G. S.	Underground lines	June 26, 1883
280,266	Watson, T. A.	Telephonic telegraphs, systems	June 26, 1883
280,288	Brown, F. M. and Bosworth, C. B.	Magneto-electric	June 26, 1883
280,301	Fisher, I.	do	June 26, 1883
280,324	Noble, J. E.	Insulators	June 26, 1883
280,337	Thompson, R. H. S.	Lights, incandescent	June 26, 1883

## REISSUES.

10,183	Lockwood, R. M. and Bartlett, S. H.	Telephonic telegraphs, electric, reissue of 228,826	Aug. 15, 1882
10,193	D'Infreville, G.	Telegraphs, duplex, reissue of 238,094	Sept. 5, 1882
10,232	Fimney, J. R.	Telegraphs, railway-car, reissue of 231,552	Nov. 7, 1882
10,290	Parker, L. C.	Applications, tools and machines, reissue of 269,813	Feb. 20, 1883
10,299	Weston, E.	Lights, incandescent, reissue of 263,828	Mar. 27, 1883
10,344	Steward, D. M.	Insulators, reissue of 271,994	June 19, 1883

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## APPENDIX NO. II.

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### PART III.

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CONSISTING OF AN

ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1882, to July 1, 1883, giving the names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.

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# ALPHABETICAL INDEX

OF

## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1882, TO JULY 1, 1883.

No.	NAME.	CLASS.	DATE.
261,975	Absterdam, J.	Telegraphs, automatic	Aug. 1, 1882
265,912	Adams, G. W.	Recorders	Oct. 10, 1882
274,246	Ader, C.	Telephonic telegraphs, electric	Mar. 20, 1883
275,797	Alexander, W. A.	Batteries, galvanic	Apr. 17, 1883
273,336	Allen, G. D.	Lights, arc	Mar. 6, 1883
264,599	Allen, G. H.	Lights, systems and appliances	Sept. 19, 1882
275,345	Allen, J. B.	Lights, arc	Apr. 10, 1883
270,361	Allen, P. R.	do	Jan. 9, 1883
273,429	Allen, P. R.	Conductors	Mar. 6, 1883
271,395	Amet, E. H.	Lights, arc	Jan. 30, 1883
265,209	Anderson, F.	Telegraphs, perforating	Sept. 26, 1882
265,210	Anderson, F.	Telegraphs, automatic	Sept. 26, 1882
265,211	Anderson, F.	Telegraphs, perforating	Sept. 26, 1882
265,212	Anderson, F.	Telegraphs, automatic	Sept. 26, 1882
265,213	Anderson, F.	Telegraphs, perforating	Sept. 26, 1882
265,297	Anderson, F.	Telegraphs, automatic	Oct. 3, 1882
265,358	Anderson, F.	do	Oct. 3, 1882
267,966	Anderson, F.	Relays and sounders	Nov. 21, 1882
267,967	Anderson, F.	Morse registers	Nov. 21, 1882
261,895	Anderson, J. and Smith, B.	Telegraphs	Aug. 1, 1882
261,979	Anderson, S.	Underground lines	Aug. 1, 1882
266,337	Andrews, J. D. F.	Lights, arc	Oct. 24, 1882
279,517	Ansot, H.	do	June 19, 1883
261,649	Apple, J. B.	Underground lines	July 25, 1882
279,629	Applegate, E. W.	Telegraphs, fire	June 19, 1883
263,457	Armstrong, O. S.	Gas-lighting	Aug. 29, 1882
279,315	Aronson, J. N.	Therapeutics, electrodes	June 12, 1883
265,364	Ashcroft, E. H.	Alarms	Oct. 3, 1882
265,365	Ashcroft, E. H.	do	Oct. 3, 1882
275,347	Atkinson, P.	Friction-generators	Apr. 10, 1883
274,101	Atwater, J. B.	Motors	Mar. 20, 1883
278,760	Atwater, J. B.	do	June 5, 1883
272,017	Atwood, J. E.	Lights, arc	Feb. 13, 1883
276,328	Avery, E. M.	Lights, systems and appliances	Apr. 24, 1883
278,846	Bailey, H. L.	Clocks	June 5, 1883
268,930	Bain, F.	Magneto-electric	Dec. 12, 1882
263,380	Baldwin, C. W.	Regulators	Aug. 29, 1882
268,448	Baldwin, J. S.	Bells	Dec. 5, 1882
260,925	Ball, C. E.	Lights, arc	July 11, 1882
266,075	Ball, C. E.	Lightning-rods	Oct. 17, 1882
272,187	Ball, C. E.	Applications, tools and machines	Feb. 13, 1883
278,076	Ball, C. E.	Magneto-electric	May 22, 1883
268,850	Ball, C. M.	Lights, arc	Dec. 12, 1882
268,851	Ball, C. M.	do	Dec. 12, 1882
277,536	Ball, F., jr.	Lights, systems and appliances	May 15, 1883
261,520	Ball, R. E.	Magneto-electric	July 25, 1882
279,476	Ball, R. E.	do	June 12, 1883
277,104	Ballou, G. F.	Clocks	May 8, 1883
274,699	Barker, G. F.	Conductors	Mar. 27, 1883
273,011	Barker, R.	Separators	Feb. 27, 1883
276,997	Barker, R.	do	May 8, 1883
280,116	Barnard, D. G.	Telephonic telegraphs, systems	June 26, 1883
264,919	Barnes, R. F.	Lights, incandescent	Sept. 26, 1882
271,299	Barrett, J. A.	Batteries, galvanic	Jan. 30, 1883
262,532	Bartlett, S. H. and Waite, H. E.	Telephonic telegraphs, systems	Aug. 8, 1882
271,188	Bartlett, S. H. and Waite, H. E.	Telephonic telegraphs, magnetic	Jan. 23, 1883
264,848	Batley, J.	Motors	Sept. 26, 1882
277,869	Bausch, E.	Lights, systems and appliances	May 22, 1883
274,257	Bawse, E. E.	Applications, tools and machines	Mar. 20, 1883

No.	NAME.	CLASS.	DATE.
274,552	Bawsel, E. E	Telephonic telegraphs, systems	Mar. 27, 1883
277,198	Baxter, M. L	Telephonic telegraphs, electric	May 8, 1883
277,199	Baxter, M. L	Telephonic telegraphs, magnetic	May 8, 1883
271,972	Baxter, W., jr	Magneto-electric	Feb. 6, 1883
264,227	Beardslee, G. W	do	Sept. 12, 1882
264,228	Beardslee, G. W	do	Sept. 12, 1882
264,229	Beardslee, G. W	do	Sept. 12, 1882
264,230	Beardslee, G. W	do	Sept. 12, 1882
265,004	Beardslee, G. W	do	Sept. 26, 1882
265,737	Beardslee, G. W	Lights, arc	Oct. 10, 1882
270,725	Beardslee, G. W	do	Jan. 16, 1883
279,524	Beaty, M.	Applications, tools and machines	June 19, 1883
275,879	Bedinger, G. M., jr	Telegraphs, railway-car	Apr. 17, 1883
260,737	Beecher, L	Telephonic telegraphs, mechanical	July 11, 1882
266,746	Beedy, S. E	Telephonic telegraphs, magnetic	Oct. 31, 1882
266,747	Beedy, S. E	do	Oct. 31, 1882
270,000	Beesley, T	Applications, tools and machines	Jan. 2, 1883
267,825	Bell, T. J	Alarms	Nov. 21, 1882
261,118	Benjamin, E. B	Friction-generators	July 11, 1882
276,953	Bentley, E. M	Underground lines	May 1, 1883
276,954	Bentley, E. M	do	May 1, 1883
276,757	Bentley, E. M. and Knight, W. H	do	May 1, 1883
262,271	Bergmann, S	Lights, systems and appliances	Aug. 8, 1882
262,272	Bergmann, S	do	Aug. 8, 1882
263,103	Bergmann, S	do	Aug. 22, 1882
266,750	Bergmann, S	Telephonic telegraphs, systems	Oct. 31, 1882
275,748	Bergmann, S	Conductors	Apr. 10, 1883
275,749	Bergmann, S	Lights, systems and appliances	Apr. 10, 1883
262,921	Berliner, E	Telephonic telegraphs, magnetic	Aug. 22, 1882
262,922	Berliner, E	Telephonic telegraphs, systems	Aug. 22, 1882
270,884	Berliner, E	Batteries, secondary	Jan. 23, 1883
263,011	Bernstein, A	Lights, incandescent	Aug. 22, 1882
267,319	Bernstein, A	Batteries, galvanic	Nov. 14, 1882
269,559	Bernstein, A	Meters	Dec. 26, 1882
271,302	Bernstein, A	Lights, incandescent	Jan. 30, 1883
273,704	Bernstein, A	do	Mar. 13, 1883
263,304	Betts, L. F	do	Aug. 29, 1882
274,899	Blackall, B. F. and Decker, J. C	Batteries, galvanic	Apr. 3, 1883
261,129	Blair, J. B	Magneto-electric	July 18, 1882
276,216	Blake, F	Switches	Apr. 24, 1883
267,136	Blanchard, V. W	Magneto-electric	Nov. 7, 1882
267,137	Blanchard, V. W	Batteries, secondary	Nov. 7, 1882
267,138	Blanchard, V. W	Electro-magnets	Nov. 7, 1882
268,174	Blanchard, V. W	Batteries, secondary	Nov. 28, 1882
268,175	Blanchard, V. W	Batteries, secondary, applications	Nov. 28, 1882
263,281	Blodgett, A. D. and G. W. and Tirrell, J. P	Indicators	Aug. 22, 1882
261,989	Blodgett, G. W. and A. D.	do	Aug. 1, 1882
275,123	Blumenberg, I. R	Conductors	Apr. 3, 1883
277,445	Boettcher, E	Batteries, secondary	May 15, 1883
279,634	Bogart, A. L	Circuit-closers	June 19, 1883
264,510	Boltou, O	Recorders	Sept. 19, 1882
260,646	Borden, S	Condensers	July 4, 1882
260,647	Borden, S	Lights, arc	July 4, 1882
278,679	Bosworth, C. B. and Swan, F. A	do	June 5, 1883
269,379	Boyer, B	Underground lines	Dec. 19, 1882
279,322	Brainerd, C. A	Applications, general	June 12, 1883
270,379	Brandou, J. H	Lightning-rods	Jan. 9, 1883
278,494	Breckenridge, H. W	Telephonic telegraphs, systems	May 29, 1883
266,344	Breckenridge, H. W. and Duxbury, J. W	do	Oct. 24, 1882
267,058	Brennan, J. W	do	Nov. 7, 1882
267,059	Brennan, J. W	do	Nov. 7, 1882
274,710	Brentauo, S	Underground lines	Mar. 27, 1883
265,746	Brewtnall, A. W	Connectors	Oct. 10, 1882
278,087	Brisben, W. M	Underground lines	May 22, 1883
261,904	Brooks, E. J	Lights, arc	Aug. 1, 1882
272,524	Brott, G	Connectors	Feb. 20, 1883
267,144	Brongham, R	Switches	Nov. 7, 1882
264,618	Brown, A	Batteries, galvanic	Sept. 19, 1882
261,511	Brown, C. W	Telephonic telegraphs, details	July 18, 1882
274,882	Brown, F. H	Applications, general	Mar. 27, 1883
264,819	Brown, F. M	Heaters	Sept. 19, 1882
280,288	Brown, F. M. and Bosworth, C. B	Magneto-electric	June 26, 1883
268,075	Brown, G. M	Insulators	Nov. 28, 1882
271,029	Brown, W	Lightning-rods	Jan. 23, 1883
260,650	Brush, C. F	Regulators	July 4, 1882
260,651	Brush, C. F	do	July 4, 1882
260,652	Brush, C. F	Magneto-electric	July 4, 1882

No.	NAME.	CLASS.	DATE.
260,653	Brush, C. F.	Batteries, secondary	July 4, 1882
260,654	Brush, C. F.	do	July 4, 1882
261,077	Brush, C. F.	Lights, systems and appliances	July 11, 1882
261,512	Brush, C. F.	Batteries, secondary	July 18, 1882
261,995	Brush, C. F.	do	Aug. 1, 1882
262,533	Brush, C. F.	do	Aug. 8, 1882
263,756	Brush, C. F.	do	Sept. 5, 1882
263,757	Brush, C. F.	Lights, systems and appliances	Sept. 5, 1882
263,758	Brush, C. F.	do	Sept. 5, 1882
264,211	Brush, C. F.	Batteries, secondary	Sept. 12, 1882
266,089	Brush, C. F.	do	Oct. 17, 1882
266,090	Brush, C. F.	do	Oct. 17, 1882
266,762	Brush, C. F.	do	Oct. 31, 1882
274,082	Brush, C. F.	do	Mar. 13, 1883
274,904	Brush, C. F.	Lights, arc	Apr. 3, 1883
274,905	Brush, C. F.	Batteries, secondary	Apr. 3, 1883
275,985	Brush, C. F.	do	Apr. 17, 1883
275,986	Brush, C. F.	do	Apr. 17, 1883
276,155	Brush, C. F.	do	Apr. 24, 1883
276,348	Brush, C. F.	do	Apr. 24, 1883
264,620	Buchanan, C. G.	Separators	Sept. 19, 1882
261,303	Buell, C. E.	Batteries, secondary, applications	July 18, 1882
261,513	Buell, C. E.	do	July 18, 1882
262,887	Buell, C. E.	Telegraphs, fire	Aug. 15, 1882
263,651	Buell, C. E.	Batteries, galvanic	Aug. 29, 1882
263,759	Buell, C. E.	Telegraphs, fire	Sept. 5, 1882
266,579	Buell, C. E.	do	Oct. 24, 1882
270,734	Buell, C. E.	Batteries, secondary, applications	Jan. 16, 1883
270,735	Buell, C. E.	do	Jan. 16, 1883
271,783	Buell, C. E.	Telegraphs, fire	Feb. 6, 1883
275,752	Buell, C. E.	do	Apr. 10, 1883
279,327	Buell, C. E.	Telegraphs	June 12, 1883
271,597	Bulen, G. F.	Telegraphs, fire	Feb. 6, 1883
271,598	Bulen, G. F.	do	Feb. 6, 1883
267,833	Bunnell, J. H.	Relays and sounders	Nov. 21, 1882
260,449	Burn, T.	Keys	July 4, 1882
269,634	Burnside, W. J.	Telegraphs, printing	Dec. 26, 1882
273,810	Burnside, W. J.	do	Mar. 13, 1883
274,083	Cable, J. A.	Separators	Mar. 13, 1883
264,821	Callender, W. O.	Conductors	Sept. 19, 1882
260,533	Campbell, W. M.	Underground lines	July 4, 1882
272,410	Campbell, W. M.	do	Feb. 20, 1883
272,411	Campbell, W. M.	do	Feb. 20, 1883
260,937	Candee, W. L.	Lights, systems and appliances	July 11, 1882
277,990	Carlton, H. W.	Railway-signals	May 22, 1883
265,576	Carney, G. J. and Meigs, J. V.	Transmitters	Oct. 10, 1882
265,753	Cary, J. H.	Telephonic telegraphs, calls	Oct. 10, 1882
278,221	Cary, J. H.	do	May 22, 1883
272,645	Casey, T. A.	Transmitters	Feb. 20, 1883
264,927	Cassel, H. R.	Electrolysis	Sept. 26, 1882
264,928	Cassel, H. R.	do	Sept. 26, 1882
265,754	Chandler, J.	Railway-signals	Oct. 10, 1882
278,881	Chapman, W. H.	Switches	June 5, 1883
279,224	Chassé, J. G.	Lights, arc	June 12, 1883
266,969	Cheever, C. A. and Candee, W. L.	Lights, systems and appliances	Nov. 7, 1882
270,017	Chertemps, A. and Danden, L.	Magneto-electric	Jan. 2, 1883
260,536	Chinnock, C. E.	Alarms, burglar	July 4, 1882
260,939	Chinnock, C. E.	Telephonic telegraphs, systems	July 11, 1882
274,562	Chinnock, C. E.	Conductors	Mar. 27, 1883
278,095	Clark, E.	Underground lines	May 22, 1883
265,756	Clark, J. P.	Telegraphs, railway-car	Oct. 10, 1882
265,757	Clark, J. P.	do	Oct. 10, 1882
261,677	Clarke, C. L. and Leigh, J.	Gas-lighting	July 25, 1882
273,467	Classen, A.	Electrolysis	Mar. 6, 1883
275,023	Clay, H.	Underground lines	Apr. 3, 1883
277,112	Clay, H.	Telephonic telegraphs, magnetic	May 8, 1883
276,133	Clingman, T. L.	Lights, incandescent	Apr. 17, 1883
276,777	Cocheu, N. L.	Electrolysis	May 1, 1883
265,485	Cochran, T.	Relays and sounders	Oct. 3, 1882
272,210	Cochran, T.	do	Feb. 13, 1883
277,007	Cohlman, W.	Underground lines	May 8, 1883
269,179	Cointepas, E. M.	Batteries, galvanic	Dec. 19, 1882
269,013	Coleman, C. F. and Smith, H. A.	Lights, systems and appliances	Dec. 12, 1882
278,097	Collins, C.	Connectors	May 22, 1883
270,639	Conklin, J. I., jr.	Clocks	Jan. 16, 1883
262,646	Connolly, M. D.	Telephonic telegraphs, systems	Aug. 15, 1882
262,647	Connolly, M. D.	do	Aug. 15, 1882

No.	NAME.	CLASS.	DATE.
263,862	Connolly, M. D	Telephonic telegraphs, systems	Sept. 5, 1882
279,712	Connolly, M. D	Lightning-arresters	June 19, 1883
279,714	Connolly, M. D	do	June 19, 1883
279,715	Connolly, M. D	do	June 19, 1883
279,713	Connolly, M. D. and T. A	do	June 19, 1883
262,645	Connolly, M. D. and T. A. and McTighe, T. J.	Telephonic telegraphs, systems	Aug. 15, 1882
265,023	Conover, P. V	Car-brakes	Sept. 26, 1882
268,389	Conway, W. M	Underground lines	Dec. 5, 1882
279,346	Cookson, N. C	Batteries, secondary	June 12, 1883
267,155	Cooley, C. A	Lights, arc	Nov. 7, 1882
273,259	Coolidge, E. C	Connectors	Mar. 6, 1883
274,564	Coon, J. H	Lightning-rods	Mar. 27, 1883
266,677	Corbett, R. H	Underground lines	Oct. 31, 1882
278,885	Cottrell, J. O	Conductors	June 5, 1883
278,886	Cottrell, J. O	do	June 5, 1883
267,062	Cowell, E. R. E	Recorders	Nov. 7, 1882
272,659	Cowles, A. A	Conductors	Feb. 20, 1883
272,660	Cowles, A. A	do	Feb. 20, 1883
260,667	Coy, G. W	Telephonic telegraphs, systems	July 4, 1882
264,631	Coy, G. W	do	Sept. 19, 1882
265,028	Coy, G. W	do	Sept. 26, 1882
275,362	Coy, G. W	do	Apr. 10, 1883
260,541	Craig, J. A. I	Magneto-electric	July 4, 1882
277,237	Craig, J. A. I	do	May 8, 1883
277,238	Craig, J. A. I	do	May 8, 1883
275,599	Crandell, W. C., jr	Railway-signals	Apr. 10, 1883
273,033	Crane, M. G	Annunciators	Feb. 27, 1883
270,752	Crawford, W. A	Telephonic telegraphs, electric	Jan. 16, 1883
271,805	Crockett, C. H	Gas-lighting	Feb. 6, 1883
264,517	Crookes, W	Lights, incandescent	Sept. 19, 1882
269,018	Crowell, E. and Dawson, E. C	Lightning-rods	Dec. 12, 1882
278,777	Crowell, L. C	Recorders	June 5, 1883
278,778	Crowell, L. C	do	June 5, 1883
275,600	Cummings, C	Indicators	Apr. 10, 1883
272,862	Currier, J. B	Telephonic telegraphs, calls	Feb. 27, 1883
276,960	Currier, J. B. and Rice, D. H	do	May 1, 1883
271,042	Curtis, C. G. and Crocker, F. B	Locomotion	Jan. 23, 1883
266,107	Curtiss, R. M	Applications, tools and machines	Oct. 17, 1882
261,435	Cuttriss, C	Batteries, secondary	July 18, 1882
276,565	Daft, L	Lights, arc	May 1, 1883
276,566	Daft, L	do	May 1, 1883
276,567	Daft, L	do	May 1, 1883
276,568	Daft, L	Magneto-electric	May 1, 1883
276,569	Daft, L	Regulators	May 1, 1883
277,119	Daft, L	Magneto-electric	May 8, 1883
268,630	Dailey, G. F	Telephonic telegraphs, magnetic	Dec. 5, 1882
274,916	Dalzell, J. A	Lights, arc	Apr. 3, 1883
273,264	Davis, W. E	Relays and sounders	Mar. 6, 1883
277,241	Day, W. G	Thermostats	May 8, 1883
271,610	Dean, E. C	Telephonic telegraphs, systems	Feb. 6, 1883
263,124	De Kabath, N	Batteries, secondary	Aug. 22, 1882
263,870	De Khotinsky, A	Regulators	Sept. 5, 1882
278,516	Delafield, A. F	Magneto-electric	May 29, 1883
274,110	De Lalande, F. and Chaperon, G	Batteries, galvanic	Mar. 20, 1883
266,353	Delany, P. B	Conductors	Oct. 24, 1882
274,181	Delany, P. B	Lights, systems and appliances	Mar. 20, 1883
262,015	De LaRoche, C. F	Lights, arc	Aug. 1, 1882
264,257	De LaRoche, C. F	do	Sept. 12, 1882
264,028	De Loch-Labye, L	Telephonic telegraphs, electric	Sept. 5, 1882
263,491	Dent, W	Annunciators	Aug. 29, 1882
274,573	De Redon, C. F	Bells	Mar. 27, 1883
270,209	Dickerson, E. N., jr., and Curtis, C. G	Locomotion	Jan. 9, 1883
278,411	Dickson, C. T	Telephonic telegraphs, systems	May 29, 1883
272,125	Diehl, P	Lights, incandescent	Feb. 13, 1883
276,571	Diehl, P	do	May 1, 1883
264,258	Dimmick, O. J	Applications, general	Sept. 12, 1882
265,488	D'Infreville, G	Telegraphs, dynamo	Oct. 3, 1882
265,489	D'Infreville, G	do	Oct. 3, 1882
274,112	D'Infreville, G	Telegraphs, duplex	Mar. 20, 1883
270,643	Dowens, H	Thermostats	Jan. 16, 1883
273,349	Dowens, H	do	Mar. 6, 1883
266,615	Drawbaugh, D	Telephonic telegraphs, electric	Oct. 31, 1882
272,865	Drawbaugh, D	do	Feb. 27, 1883
272,866	Drawbaugh, D	Telephonic telegraphs, magnetic	Feb. 27, 1883
276,136	Drawbaugh, D	Magneto-electric, hand-machines	Apr. 17, 1883
276,137	Drawbaugh, D	Telephonic telegraphs, electric	Apr. 17, 1883
260,548	Du Bois, J. S	Underground lines	July 4, 1882

No.	NAME.	CLASS.	DATE.
272,221	Du Bois, J. S.	Underground lines	Feb. 13, 1883
264,264	Dudley, W. J.	Telephonic telegraphs, systems	Sept. 12, 1882
268,359	Dudley, W. J.	do	Nov. 28, 1882
278,322	Dudley, W. J.	Telephonic telegraphs, calls	May 29, 1883
271,816	Dudley, W. L. and Rapp, C. F.	Lights, arc	Feb. 6, 1883
267,504	Dunn, J. P.	Telegraphs, fire	Nov. 14, 1882
274,744	Du Shane, J.	Lights, arc	Mar. 27, 1883
272,867	Dyer, J. W.	Lightning-arresters	Feb. 27, 1883
266,114	Eaton, A. K.	Batteries, secondary	Oct. 17, 1882
266,115	Eaton, A. K.	do	Oct. 17, 1882
268,360	Eaton, A. K.	do	Nov. 23, 1882
266,681	Eaton, G. S.	Underground lines	Oct. 31, 1882
280,153	Eaton, G. S.	do	June 26, 1883
262,210	Eckert, W. H. and E. A. and Seely, J. A.	Insulators	Aug. 8, 1882
266,277	Eckert, W. H., Seely, J. A. and Eckert, E. A.	Telephonic telegraphs, systems	Oct. 24, 1882
275,611	Eckert, W. H., Seely, J. A. and Eckert, E. A.	do	Apr. 10, 1883
268,392	Edgerton, N. H.	Lights, arc	Dec. 5, 1882
277,248	Edgerton, N. H.	Conductors	May 8, 1883
279,362	Edgerton, N. H.	Magneto-electric	June 12, 1883
279,363	Edgerton, N. H.	Lights, arc	June 12, 1883
263,131	Edison, T. A.	Separators	Aug. 22, 1882
263,132	Edison, T. A.	Locomotion	Aug. 22, 1882
263,133	Edison, T. A.	Magneto-electric	Aug. 22, 1882
263,134	Edison, T. A.	Regulators	Aug. 22, 1882
263,135	Edison, T. A.	Lights, incandescent	Aug. 22, 1882
263,136	Edison, T. A.	Regulators	Aug. 22, 1882
263,137	Edison, T. A.	Lights, systems and appliances	Aug. 22, 1882
263,138	Edison, T. A.	Lights, arc	Aug. 22, 1882
263,139	Edison, T. A.	Lights, incandescent	Aug. 22, 1882
263,140	Edison, T. A.	Magneto-electric	Aug. 22, 1882
263,141	Edison, T. A.	Lights, incandescent	Aug. 22, 1882
263,142	Edison, T. A.	Lights, systems and appliances	Aug. 22, 1882
263,143	Edison, T. A.	Magneto-electric	Aug. 22, 1882
263,144	Edison, T. A.	Lights, incandescent	Aug. 22, 1882
263,145	Edison, T. A.	do	Aug. 22, 1882
263,146	Edison, T. A.	Magneto-electric	Aug. 22, 1882
263,147	Edison, T. A.	Lights, systems and appliances	Aug. 22, 1882
263,148	Edison, T. A.	Magneto-electric	Aug. 22, 1882
263,149	Edison, T. A.	do	Aug. 22, 1882
263,150	Edison, T. A.	do	Aug. 22, 1882
263,878	Edison, T. A.	Lights, incandescent	Sept. 5, 1882
264,642	Edison, T. A.	Lights, systems and appliances	Sept. 19, 1882
264,643	Edison, T. A.	Magneto-electric	Sept. 19, 1882
264,645	Edison, T. A.	Lights, systems and appliances	Sept. 19, 1882
264,646	Edison, T. A.	Magneto-electric	Sept. 19, 1882
264,647	Edison, T. A.	do	Sept. 19, 1882
264,648	Edison, T. A.	do	Sept. 19, 1882
264,649	Edison, T. A.	do	Sept. 19, 1882
264,650	Edison, T. A.	Lights, incandescent	Sept. 19, 1882
264,651	Edison, T. A.	do	Sept. 19, 1882
264,652	Edison, T. A.	do	Sept. 19, 1882
264,653	Edison, T. A.	do	Sept. 19, 1882
264,654	Edison, T. A.	do	Sept. 19, 1882
264,655	Edison, T. A.	do	Sept. 19, 1882
264,656	Edison, T. A.	do	Sept. 19, 1882
264,657	Edison, T. A.	do	Sept. 19, 1882
264,658	Edison, T. A.	Regulators	Sept. 19, 1882
264,659	Edison, T. A.	do	Sept. 19, 1882
264,660	Edison, T. A.	do	Sept. 19, 1882
264,661	Edison, T. A.	do	Sept. 19, 1882
264,662	Edison, T. A.	do	Sept. 19, 1882
264,663	Edison, T. A.	do	Sept. 19, 1882
264,664	Edison, T. A.	do	Sept. 19, 1882
264,665	Edison, T. A.	do	Sept. 19, 1882
264,666	Edison, T. A.	do	Sept. 19, 1882
264,667	Edison, T. A.	do	Sept. 19, 1882
264,668	Edison, T. A.	do	Sept. 19, 1882
264,669	Edison, T. A.	do	Sept. 19, 1882
264,670	Edison, T. A.	do	Sept. 19, 1882
264,671	Edison, T. A.	do	Sept. 19, 1882
264,672	Edison, T. A.	do	Sept. 19, 1882
264,673	Edison, T. A.	do	Sept. 19, 1882
265,211	Edison, T. A.	Lights, incandescent	Oct. 3, 1882
265,774	Edison, T. A.	Meters	Oct. 10, 1882
265,775	Edison, T. A.	Lights, arc	Oct. 10, 1882
265,776	Edison, T. A.	Alarms	Oct. 10, 1882
265,777	Edison, T. A.	Lights, systems and appliances	Oct. 10, 1882

No.	NAME.	CLASS.	DATE.
265,778	Edison, T. A	Locomotion	Oct. 10, 1882
265,779	Edison, T. A	Regulators	Oct. 10, 1882
265,780	Edison, T. A	do	Oct. 10, 1882
265,781	Edison, T. A	do	Oct. 10, 1882
265,782	Edison, T. A	do	Oct. 10, 1882
265,783	Edison, T. A	do	Oct. 10, 1882
265,784	Edison, T. A	do	Oct. 10, 1882
265,785	Edison, T. A	Magneto-electric	Oct. 10, 1882
265,786	Edison, T. A	do	Oct. 10, 1882
266,021	Edison, T. A	Telephonic telegraphs, electric	Oct. 17, 1882
266,022	Edison, T. A	do	Oct. 17, 1882
266,447	Edison, T. A	Lights, incandescent	Oct. 24, 1882
266,588	Edison, T. A	Lights, systems and appliances	Oct. 24, 1882
266,793	Edison, T. A	do	Oct. 31, 1882
268,205	Edison, T. A	Magneto-electric	Nov. 28, 1882
268,206	Edison, T. A	Lights, incandescent	Nov. 28, 1882
271,613	Edison, T. A	do	Feb. 6, 1883
271,615	Edison, T. A	Regulators	Feb. 6, 1883
271,616	Edison, T. A	do	Feb. 6, 1883
272,034	Edison, T. A	Telephonic telegraphs, electric	Feb. 13, 1883
273,485	Edison, T. A	Lights, incandescent	Mar. 6, 1883
273,486	Edison, T. A	do	Mar. 6, 1883
273,487	Edison, T. A	Regulators	Mar. 6, 1883
273,488	Edison, T. A	do	Mar. 6, 1883
273,489	Edison, T. A	Locomotion	Mar. 6, 1883
273,490	Edison, T. A	do	Mar. 6, 1883
273,491	Edison, T. A	Regulators	Mar. 6, 1883
273,492	Edison, T. A	Batteries, secondary	Mar. 6, 1883
273,493	Edison, T. A	Regulators	Mar. 6, 1883
273,494	Edison, T. A	Conductors	Mar. 6, 1883
273,714	Edison, T. A	Magneto-electric, hand-machines	Mar. 13, 1883
273,828	Edison, T. A	Underground lines	Mar. 13, 1883
274,290	Edison, T. A	Lights, systems and appliances	Mar. 20, 1883
274,291	Edison, T. A	Lights, incandescent	Mar. 20, 1883
274,292	Edison, T. A	Batteries, secondary	Mar. 20, 1883
274,293	Edison, T. A	Lights, incandescent	Mar. 20, 1883
274,294	Edison, T. A	do	Mar. 20, 1883
274,295	Edison, T. A	do	Mar. 20, 1883
274,296	Edison, T. A	do	Mar. 20, 1883
274,576	Edison, T. A	Telephonic telegraphs, electric	Mar. 27, 1883
274,577	Edison, T. A	do	Mar. 27, 1883
275,612	Edison, T. A	Lights, incandescent	Apr. 10, 1883
275,613	Edison, T. A	do	Apr. 10, 1883
276,232	Edison, T. A	Regulators	Apr. 24, 1883
276,233	Edison, T. A	Magneto-electric	Apr. 24, 1883
278,413	Edison, T. A	Regulators	May 29, 1883
278,414	Edison, T. A	do	May 29, 1883
278,415	Edison, T. A	Lights, incandescent	May 29, 1883
278,416	Edison, T. A	do	May 29, 1883
278,417	Edison, T. A	do	May 29, 1883
278,418	Edison, T. A	Magneto-electric	May 29, 1883
278,419	Edison, T. A	do	May 29, 1883
270,767	Edwards, E. A	Keys	Jan. 16, 1883
275,168	Edwards, E. A	Lights, arc	Apr. 3, 1883
275,169	Edwards, E. A	Magneto-electric	Apr. 3, 1883
275,170	Edwards, E. A	Lights, arc	Apr. 3, 1883
275,171	Edwards, E. A	do	Apr. 3, 1883
275,172	Edwards, E. A	do	Apr. 3, 1883
275,173	Edwards, E. A	do	Apr. 3, 1883
273,174	Edwards, E. A	do	Apr. 3, 1883
269,030	Egan, C	Telephonic telegraphs, mechanical	Dec. 12, 1882
278,898	Einbigler, R	Gas-lighting	June 5, 1883
274,297	Elfering, J. H	Lights, arc	Mar. 20, 1883
267,409	Eltonhead, W. B	Underground lines	Nov. 14, 1882
269,568	Eltonhead, W. B	do	Dec. 26, 1882
261,813	Emery, J. A	Railway-signals	July 25, 1882
267,647	Emmens, S. H	Lights, incandescent	Nov. 14, 1882
265,789	Essick, S. V	Morse registers	Oct. 10, 1882
279,550	Essick, S. V	Telegraphs, printing	June 19, 1883
272,130	Etève, E. and Lallement, C. C	Applications, tools and machines	Feb. 13, 1883
269,273	Evans, C. A	Alarms	Dec. 19, 1882
265,790	Farmer, M. G	Lights, incandescent	Oct. 10, 1882
262,027	Farrell, J	Conductors	Aug. 1, 1882
262,028	Farrell, J	do	Aug. 1, 1882
262,029	Farrell, J	do	Aug. 1, 1882
270,652	Farren, W. D	Keys	Jan. 16, 1883
279,929	Farrington, DeW. C	Railway-signals	June 26, 1883

No.	NAME.	CLASS.	DATE.
271,324	Farrington, G. K. and H. C.	Telephonic telegraphs, mechanical	Jan. 30, 1883
266,798	Faure, C. A.	Batteries, galvanic	Oct. 31, 1882
275,334	Fenn, J. E.	Telegraphs, duplex	Apr. 3, 1883
274,474	Fennerty, J. M.	Indicators	Mar. 27, 1883
261,916	Field, S. D.	Telegraphs, duplex	Aug. 1, 1882
262,755	Field, S. D.	do	Aug. 15, 1882
274,300	Field, S. D.	Telegraphs, printing	Mar. 20, 1883
274,748	Field, S. D.	do	Mar. 27, 1883
275,178	Field, S. D.	Telephonic telegraphs, magnetic	Apr. 3, 1883
275,179	Field, S. D.	Applications, tools and machines	Apr. 3, 1883
275,180	Field, S. D.	Connectors	Apr. 3, 1883
275,181	Field, S. D.	Telegraphs, quadruplex	Apr. 3, 1883
279,729	Field, S. D.	Telegraphs, printing	June 19, 1883
279,730	Field, S. D.	do	June 19, 1883
279,865	Field, S. D.	do	June 19, 1883
273,351	Fillis, G. N.	Recorders	Mar. 6, 1883
273,049	Finn, J. L.	Lightning-arresters	Feb. 27, 1883
265,049	Finney, J. R.	Lights, arc	Sept. 26, 1882
267,859	Finney, J. R.	Regulators	Nov. 21, 1882
267,860	Finney, J. R.	Batteries, secondary	Nov. 21, 1882
268,394	Finney, J. R.	Lights, arc	Dec. 5, 1882
268,476	Finney, J. R.	Telegraphs, railway-car	Dec. 5, 1882
270,186	Finney, J. R.	Locomotion	Jan. 2, 1883
270,187	Finney, J. R.	Dental instruments	Jan. 2, 1883
271,576	Finney, J. R.	Lights, arc	Jan. 30, 1883
275,182	Finney, J. R.	do	Apr. 3, 1883
275,183	Finney, J. R.	do	Apr. 3, 1883
265,050	Finney, J. R. and Campbell, L.	do	Sept. 26, 1882
269,036	Fisher, A. B.	Magneto-electric	Dec. 12, 1882
280,301	Fisher, I.	do	June 26, 1883
279,483	Fisher, W. C.	Alarms, burglar	June 12, 1883
262,941	Fiske, H. G.	Lights, systems and appliances	Aug. 22, 1882
271,825	Fiske, H. G.	Connectors	Feb. 6, 1883
263,885	Fitch, F. K.	Lights, arc	Sept. 5, 1882
264,267	Fitch, F. K.	do	Sept. 12, 1882
268,478	Fitch, F. K.	Conductors	Dec. 5, 1882
269,657	Fitch, G. A.	Telephonic telegraphs, magnetic	Dec. 26, 1882
264,523	Flatow, S. J.	Applications, general	Sept. 19, 1882
279,557	Flint, E., jr.	Connectors	June 19, 1883
270,213	Foote, T. M.	Telegraphs, perforating	Jan. 9, 1883
270,774	Foote, T. M.	do	Jan. 16, 1883
270,775	Foote, T. M.	Morse registers	Jan. 16, 1883
277,475	Foster, G. W.	Motors	May 15, 1883
267,684	Fowler, A.	Applications, general	Nov. 21, 1882
267,685	Fowler, A.	do	Nov. 21, 1882
279,371	Fox, St. G. L.	Meters	June 12, 1883
262,285	Freeman, J. P.	Telephonic telegraphs, electric	Aug. 8, 1882
262,393	Freeman, J. P.	Alarms, burglar	Aug. 8, 1882
264,269	Freeman, W. K.	Lights, arc	Sept. 12, 1882
264,270	Freeman, W. K.	do	Sept. 12, 1882
264,271	Freeman, W. K.	Magneto-electric	Sept. 12, 1882
264,272	Freeman, W. K.	Motors	Sept. 12, 1882
270,777	Freeman, W. K.	Magneto-electric	Jan. 16, 1883
270,778	Freeman, W. K.	Batteries, secondary	Jan. 16, 1883
266,455	Freeman, W. P.	Lights, arc	Oct. 24, 1882
270,779	Freeman, W. P.	Magneto-electric	Jan. 16, 1883
270,780	Freeman, W. P.	do	Jan. 16, 1883
270,781	Freeman, W. P.	do	Jan. 16, 1883
277,020	Frese, B.	Telegraphs, fire	May 8, 1883
260,859	Friedel, C.	Batteries, galvanic	July 11, 1882
273,269	Frost, E. J.	Applications, tools and machines	Mar. 6, 1883
278,119	Fuller, G. W.	Magneto-electric	May 22, 1883
278,120	Fuller, G. W.	do	May 22, 1883
278,121	Fuller, G. W.	do	May 22, 1883
278,122	Fuller, G. W.	do	May 22, 1883
265,594	Gage, G. A.	Underground lines	Oct. 10, 1882
275,185	Gardanier, G. W.	Telegraphs, quadruplex	Apr. 3, 1883
280,028	Gardanier, G. W.	Telegraphs, duplex	June 26, 1883
271,832	Gardner, P. G., jr., LeRoy, J. W. and Tinker, G. K.	Conductors	Feb. 6, 1883
262,396	Gary, W. W.	Railway-signals	Aug. 8, 1882
266,027	Gary, W. W.	do	Oct. 17, 1882
266,957	Gassett, O.	do	Oct. 31, 1882
267,978	Gassett, O.	do	Nov. 21, 1882
267,979	Gassett, O.	do	Nov. 21, 1882
276,021	Gassett, O.	do	Apr. 17, 1883
276,138	Gassett, O. and Fisher, I.	do	Apr. 17, 1883

No.	NAME.	CLASS.	DATE.
266,129	Gibbs, C	Batteries, galvanic	Oct. 17, 1882
279,934	Giel, F. S	Lights, arc	June 26, 1883
271,059	Gifford, A. T	do	Jan. 23, 1883
266,806	Gilliland, E. T	Telegraphs, railway-car	Oct. 31, 1882
270,945	Gilliland, E. T	Magneto-electric, hand-machines	Jan. 23, 1883
272,234	Gilliland, E. T	do	Feb. 13, 1883
262,660	Gilliland, J. F	Recorders	Aug. 15, 1882
265,595	Gilliland, J. F	Magneto-electric	Oct. 10, 1882
267,747	Gilliland, J. F	Switches	Nov. 21, 1882
276,024	Gilliland, J. F	Magneto-electric, hand-machines	Apr. 17, 1883
266,987	Gisborne, J. S	Telegraphs, dial	Nov. 7, 1882
266,358	Goebel, H	Lights, incandescent	Oct. 24, 1882
261,598	Goldberg, M	Therapencies, baths	July 25, 1882
272,833	Goodfellow, J. T	Underground lines	Feb. 20, 1883
278,233	Goodridge, J. C., jr	Conductors	May 22, 1883
271,979	Gordon, E	Magneto-electric	Feb. 6, 1883
268,218	Graham, A	Lights, arc	Nov. 28, 1882
269,281	Gramme, Z. T	Motors	Dec. 19, 1882
279,239	Grau, H	do	June 12, 1883
276,390	Gravier, A. I	Magneto-electric	Apr. 24, 1883
278,304	Gravier, A. I	Lights, arc	May 22, 1883
274,445	Gray, A. W	Clocks	Mar. 20, 1883
270,305	Gray, J	Railway-signals	Jan. 9, 1883
275,195	Green, J. H	Underground lines	Apr. 3, 1883
266,808	Greenfield, E. T	Lights, systems and appliances	Oct. 31, 1882
278,535	Greenfield, E. T	do	May 29, 1883
260,562	Greenfield, E. T. and Bradley, C. S	do	July 4, 1882
278,536	Greives, J	Conductors	May 29, 1883
266,467	Guerin, E	Friction-generators	Oct. 24, 1882
260,864	Guest, J. H	Lights, incandescent	July 11, 1882
260,975	Guest, J. H	Lights, arc	July 11, 1882
265,315	Guest, J. H	Lights, incandescent	Oct. 3, 1882
265,410	Guest, J. H	do	Oct. 3, 1882
265,670	Guest, J. H	Lights, arc	Oct. 10, 1882
279,152	Guest, J. H	do	June 12, 1883
260,751	Gullberg, C	Clocks	July 11, 1882
275,039	Gunther, G. A	Applications, tools and machines	Apr. 3, 1883
267,878	Guthrie, J. T	Keys	Nov. 21, 1882
268,661	Haas, L	Underground lines	Dec. 5, 1882
263,780	Haase, R. and Recker, J. P	Magneto-electric	Sept. 5, 1882
273,513	Hadden, W	Railway-signals	Mar. 6, 1883
273,514	Hadden, W	do	Mar. 6, 1883
273,515	Hadden, W	do	Mar. 6, 1883
273,516	Hadden, W	do	Mar. 6, 1883
273,517	Hadden, W	do	Mar. 6, 1883
278,940	Hadden, W	do	June 5, 1883
275,378	Haddoek, W	Underground lines	Apr. 10, 1883
262,180	Hadley, A	Telephonic telegraphs, systems	Aug. 1, 1882
271,628	Haid, A	Batteries, secondary	Feb. 6, 1883
278,009	Halkyard, W	Conductors	May 22, 1883
276,807	Hall, A. W	Railway-signals	May 1, 1883
270,058	Hamblet, J	Clocks	Jan. 2, 1883
269,521	Hamilton, E. M	Keys	Dec. 26, 1882
273,728	Hamilton, E. M	Relays and sounders	Mar. 13, 1883
279,646	Hamilton, J. E	Underground lines	June 19, 1883
279,747	Hamlin, E. B	Telephonic telegraphs, systems	June 19, 1883
267,195	Hanlon, G. O., J. P. A. and J. F	Railway-signals	Nov. 7, 1882
267,883	Hansen, C. H	Underground lines	Nov. 21, 1882
273,231	Happersberger, J	Clocks	Feb. 27, 1883
278,946	Happersberger, J	do	June 5, 1883
267,343	Harbison, A	Underground lines	Nov. 14, 1882
267,196	Harling, E. J. and Hartmann, E	Magneto-electric	Nov. 7, 1882
268,224	Harling, E. J. and Hartmann, E	Lights, arc	Nov. 28, 1882
263,336	Hartwell, O. D	Telephonic telegraphs, details	Aug. 29, 1882
266,287	Haskins, C. C. and Wilson, C. H	Telephonic telegraphs, systems	Oct. 24, 1882
261,091	Haskins, C. D	Lights, arc	July 11, 1882
266,286	Haskins, C. D	Telephonic telegraphs, electric	Oct. 24, 1882
260,866	Haskins, C. D. and Lungren, C. M	Regulators	July 11, 1882
265,412	Hathaway, W. E. and Johnston, W. B	Telephonic telegraphs, mechanical	Oct. 3, 1882
279,946	Hazlett, F. B	Annunciators	June 26, 1883
261,850	Heikel, O	Magneto-electric	Aug. 1, 1882
268,099	Heikel, O	do	Nov. 28, 1882
266,363	Heinrichs, C. F	Lights, arc	Oct. 24, 1882
260,480	Heisler, C	Magneto-electric	July 4, 1882
262,590	Heisler, C	do	Aug. 15, 1882
263,404	Heisler, C	Lights, arc	Aug. 29, 1882
276,038	Hendrickson, S. C	Railway-signals	Apr. 17, 1883

No.	NAME.	CLASS.	DATE.
271,707	Hess, A. T	Annunciators	Feb. 6, 1883
274,602	Hibbard, A. S	Telephonic telegraphs, systems	Mar. 27, 1883
263,700	Hicks, T. H	Induction-coils	Sept. 5, 1882
273,079	Higgins, O. and W. S. and Grim, J	Telephonic telegraphs, mechanical	Feb. 27, 1883
269,933	Higgs, P. and Courtenay, W	Insulators	Jan. 2, 1883
274,323	Himmer, V	Clocks	Mar. 20, 1883
274,324	Himmer, V	do	Mar. 20, 1883
274,325	Himmer, V	do	Mar. 20, 1883
266,290	Hindley, R. C. and Buffham, W. S.	Magneto-electric	Oct. 24, 1882
261,712	Hochhausen, W	do	July 25, 1882
271,456	Hochhausen, W	Lights, arc	Jan. 30, 1883
271,457	Hochhausen, W	do	Jan. 30, 1883
271,458	Hochhausen, W	do	Jan. 30, 1883
269,417	Holcombe, A. G	do	Dec. 19, 1882
264,698	Holzer, W	Lights, incandescent	Sept. 19, 1882
277,731	Hopkinson, J	Meters	May 15, 1883
280,039	Hopkinson, J. and Muirhead, A	Magneto-electric	June 26, 1883
272,256	Houston, E. J	do	Feb. 13, 1883
262,949	Howard, C. T	Lightning-arresters	Aug. 22, 1882
260,982	Howser, G. W	Telephonic telegraphs, calls	July 11, 1882
278,968	Huck, C	Conductors	June 5, 1883
277,286	Humans, W	Telephonic telegraphs, systems	May 8, 1883
268,796	Hunt, W. L	Telegraphs, railway-car	Dec. 12, 1882
270,674	Hunt, W. L	do	Jan. 16, 1883
272,441	Hunter, R. M	Conductors	Feb. 20, 1883
275,387	Hunter, R. M	Underground lines	Apr. 10, 1883
277,569	Hunter, R. M	Telegraphs, railway-car	May 15, 1883
261,157	Hurlbut, D. N	Lights, systems and appliances	July 18, 1882
265,810	Hurlbut, D. N	do	Oct. 10, 1882
276,415	Hurlbut, D. N	Underground lines	Apr. 24, 1883
267,691	Hussey, C. A	Lights, arc	Nov. 21, 1882
269,937	Hussey, C. A	Lights, systems and appliances	Jan. 2, 1883
269,938	Hussey, C. A	Lights, arc	Jan. 2, 1883
269,939	Hussey, C. A	do	Jan. 2, 1883
270,676	Hussey, C. A	do	Jan. 16, 1883
267,208	Huston, H. E	Telephonic telegraphs, mechanical	Nov. 7, 1882
277,036	Hyde, J. B	Underground lines	May 8, 1883
278,797	Ide, A. L	Lights, systems and appliances	June 5, 1883
260,574	Irwin, J. H	Motors	July 4, 1882
260,575	Irwin, J. H	Regulators	July 4, 1882
261,351	Irwin, J. H	Lights, incandescent	July 18, 1882
261,352	Irwin, J. H	Lights, systems and appliances	July 18, 1882
262,417	Irwin, J. H	do	Aug. 8, 1882
262,418	Irwin, J. H	Lights, incandescent	Aug. 8, 1882
262,419	Irwin, J. H	Lights, systems and appliances	Aug. 8, 1882
262,420	Irwin, J. H	Lights, incandescent	Aug. 8, 1882
262,421	Irwin, J. H	Regulators	Aug. 8, 1882
262,422	Irwin, J. H	Magneto-electric	Aug. 8, 1882
262,423	Irwin, J. H	Lightning-arresters	Aug. 8, 1882
262,424	Irwin, J. H	Lights, incandescent	Aug. 8, 1882
262,782	Irwin, J. H	Magneto-electric	Aug. 15, 1882
266,993	Jablochhoff, P	do	Nov. 7, 1882
273,739	Jablochhoff, P	Batteries, galvanic	Mar. 13, 1883
273,092	Jackson, A	Indicators	Feb. 27, 1883
269,862	Jackson, C. T	Alarms, burglar	Jan. 2, 1883
267,790	Jackson, W. A. and Cole, W. R	Telephonic telegraphs, systems	Nov. 21, 1882
266,292	Jacobson, L	Telephonic telegraphs, electric	Oct. 24, 1882
262,784	Jacques, W. W	do	Aug. 15, 1882
263,524	Jacques, W. W	Telephonic telegraphs, systems	Aug. 29, 1882
270,438	Jacques, W. W	Conductors	Jan. 9, 1883
261,234	Jameson, J	Lights, incandescent	July 18, 1882
262,544	Jenney, J. A	Magneto-electric	Aug. 8, 1882
261,815	Jenney, J. A. and C. D	Lights, arc	July 25, 1882
269,526	Jennings, C. C	Lights, systems and appliances	Dec. 26, 1882
263,526	Jennison, C. R	Telephonic telegraphs, systems	Aug. 29, 1882
265,092	Jepson, J	do	Sept. 26, 1882
270,806	Jobbins, W. F	Lights, arc	Jan. 16, 1883
266,592	Johnson, A. F. and F. B	Telegraphs, perforating	Oct. 24, 1882
266,593	Johnson, A. F. and F. B	do	Oct. 24, 1882
268,237	Johnson, A. F. and F. B	Telegraphs, printing	Nov. 28, 1882
275,339	Johnson, A. F. and F. B	Telegraphs, automatic	Apr. 3, 1883
264,293	Johnson, E. H	Connectors	Sept. 12, 1882
264,299	Johnson, E. H	Lights, systems and appliances	Sept. 12, 1882
267,897	Johnson, H. T	Telephonic telegraphs, mechanical	Nov. 21, 1882
262,296	Johnston, R. A	Lights, systems and appliances	Aug. 8, 1882
274,611	Johnstone, W. H	Underground lines	Mar. 27, 1883
279,392	Johnstone, W. H	do	June 12, 1883

No.	NAME.	CLASS.	DATE.
270,954	Jürgensen, C. P.	Lights, arc	Jan. 23, 1883
261,235	Karshner, W. W.	Therapeutics, baths	July 18, 1882
266,161	Kartmark, O.	Lights, arc	Oct. 17, 1882
272,058	Kauffer, T. L. and Serson, J.	Batteries, galvanic	Feb. 13, 1883
279,872	Kauffer, T. L. and Serson, J.	do	June 19, 1883
275,392	Keegan, V. E.	Magneto-electric	Apr. 10, 1883
272,262	Keith, N. S.	Lights, arc	Feb. 13, 1883
273,855	Keith, N. S.	Batteries, secondary	Mar. 13, 1883
263,913	Kellogg, A. B.	Separators	Sept. 5, 1882
273,366	Kelso, J. S., jr.	Lights, incandescent	Mar. 6, 1883
266,841	Kenton, H.	Separators	Oct. 31, 1882
269,794	Kidder, J.	Induction-coils	Dec. 26, 1882
262,790	King, J.	Separators	Aug. 15, 1882
264,304	Kinsmau, F. E.	Batteries, galvanic	Sept. 12, 1882
276,184	Kinsman, F. E.	Telephonic telegraphs, systems	Apr. 24, 1883
260,879	Kitsee, I.	Telegraphs, fire	July 11, 1882
261,238	Kitsee, I.	do	July 18, 1882
262,054	Kitsee, I.	Applications, general	Aug. 1, 1882
262,055	Kitsee, I.	do	Aug. 1, 1882
262,056	Kitsee, I.	do	Aug. 1, 1882
262,057	Kitsee, I.	do	Aug. 1, 1882
265,676	Kitsee, I.	Telegraphs, fire	Oct. 10, 1882
265,677	Kitsee, I.	Transmitters	Oct. 10, 1882
268,908	Kitsee, I.	Applications, general	Dec. 12, 1882
280,046	Knapp, S. H. and Adams, A. E.	Railway-signals	June 26, 1883
272,839	Knight, J. K. and Baker, W. H.	do	Feb. 20, 1883
276,829	Knight, W. H. and Bentley, E. M.	Underground lines	May 1, 1883
279,399	Knowles, E. R. and Idell, F. E.	Magneto-electric	June 12, 1883
276,974	Koyl, C. H.	Batteries, secondary	May 1, 1883
279,400	Koyl, C. H.	do	June 12, 1883
266,483	Kruesi, J.	Underground lines	Oct. 24, 1882
273,859	Kruesi, J.	do	Mar. 13, 1883
275,776	Kruesi, J.	do	Apr. 10, 1883
276,604	Lakin, J. A.	Telephonic telegraphs, calls	May 1, 1883
278,026	Lakin, J. A.	Telephonic telegraphs, electric	May 22, 1883
279,401	Lakin, J. A.	do	June 12, 1883
262,059	Lane, T. W. and Harrington, F. W.	Telephonic telegraphs, systems	Aug. 1, 1882
265,519	Langley, J. W.	Regulators	Oct. 3, 1882
267,905	Lartigue, H.	Telephonic telegraphs, systems	Nov. 21, 1882
273,554	Lea, H.	Lights, incandescent	Mar. 6, 1883
279,574	Leayercraft, E. S.	Applications, general	June 19, 1883
262,063	Le Grande, W. W.	Telephonic telegraphs, calls	Aug. 1, 1882
272,142	Le Grande, W. W.	Railway-signals	Feb. 13, 1883
272,276	Le Grande, W. W.	do	Feb. 13, 1883
278,565	Lembcke, R.	Applications, general	May 29, 1883
273,291	Levy, M.	Regulators	Mar. 6, 1883
266,295	Lewis, C. W.	Telephonic telegraphs, systems	Oct. 24, 1882
266,374	Lewis, C. W.	do	Oct. 24, 1882
270,230	Lewis, J.	Magneto-electric	Jan. 9, 1883
276,839	Lewis, J. S.	Insulators	May 1, 1883
276,840	Lieberman, A. and Robb, W.	Heaters	May 1, 1883
274,505	Lighthall, A. H.	Underground lines	Mar. 27, 1883
268,031	Linford, C.	do	Nov. 28, 1882
266,297	Livermore, J. P.	Railway-signals	Oct. 24, 1882
273,558	Livermore, J. P.	do	Mar. 6, 1883
278,028	Lobdell, A. C.	Lightning-rods	May 22, 1883
266,703	Lockwood, J. E.	Lights, systems and appliances	Oct. 31, 1882
260,883	Lockwood, T. D.	Telephonic telegraphs, systems	July 11, 1882
260,884	Lockwood, T. D.	do	July 11, 1882
273,374	Lockwood, T. D.	Telegraphs, fire	Mar. 6, 1883
277,753	Logan, T.	Motors	May 15, 1883
278,346	Long, H. E.	Connectors	May 29, 1883
271,878	Loring, C. T. and Pierce, G. W.	Telephonic telegraphs, magnetic	Feb. 6, 1883
278,983	Loryea, A. M. and Palmer, C. H.	Magneto-electric	June 5, 1883
277,145	Lothrop, C. H.	Switches	May 8, 1883
267,437	Loughlin, J. F.	Indicators	Nov. 14, 1882
271,721	Low, J. B.	Car-brakes	Feb. 6, 1883
274,452	Lowe, H.	Switches	Mar. 20, 1883
272,724	Lowne, R. M.	Indicators	Feb. 20, 1883
275,233	Lynch, J.	Underground lines	Apr. 3, 1883
260,488	Lytte, H. B.	Telephonic telegraphs, electric	July 4, 1882
263,926	Lytte, H. B.	Telephonic telegraphs, systems	Sept. 5, 1882
273,295	Lytte, H. B.	Underground lines	Mar. 6, 1883
272,069	Mace, T.	Insulators	Feb. 13, 1883
268,034	Mackay, M.	Conductors	Nov. 28, 1882
266,377	Mac Kellar, A. D.	Motors	Oct. 24, 1882
270,551	Mackenzie, J.	Batteries, galvanic	Jan. 9, 1883

No.	NAME.	CLASS.	DATE.
273,563	Mackenzie, J. U	Annunciators	Mar. 6, 1883
264,722	Maekintosh, J	Underground lines	Sept. 19, 1882
269,868	Mackintosh, J	Conductors	Jan. 2, 1883
266,171	Maekintosh, W	Underground lines	Oct. 17, 1882
273,565	Macpherson, D. J	Car-brakes	Mar. 6, 1883
271,880	Maloney, J. A	Batteries, secondary	Feb. 6, 1883
274,352	Maloney, J. A	Telephonic telegraphs, magnetic	Mar. 20, 1883
274,353	Maloney, J. A	Telephonic telegraphs, electric	Mar. 20, 1883
266,172	Maloney, J. A. and Koyl, C. H	Batteries, secondary	Oct. 17, 1882
262,301	Mann, L	Telephonic telegraphs, systems	Aug. 8, 1882
266,853	Mann, L	do	Oct. 31, 1882
266,854	Mann, L	do	Oct. 31, 1882
275,237	Marcus, S	Magneto-electric	Apr. 3, 1883
277,588	Marks, J	Underground lines	May 15, 1883
271,882	Marley, J. W	Telegraphs, railway-car	Feb. 6, 1883
274,802	Martin, A. J	Batteries, secondary	Mar. 27, 1883
274,622	Martin, J. F	Conductors	Mar. 27, 1883
275,399	Martin, J. F	do	Apr. 10, 1883
266,706	Martin, M	Thermostats	Oct. 31, 1882
272,593	Martin, M	do	Feb. 27, 1883
270,449	Martin, S. and Richards, J. F	Lights, arc	Jan. 9, 1883
266,855	Mason, W. B	Magneto-electric	Oct. 31, 1882
268,254	Mather, R. H	Lights, arc	Nov. 28, 1882
268,255	Mather, R. H	Magneto-electric	Nov. 28, 1882
270,236	Matthiessen, F. O	Telegraphs, fire	Jan. 9, 1883
271,347	Mautner, L	Clocks	Jan. 30, 1883
261,741	Maxim, H. S	Lights, incandescent	July 25, 1882
264,042	Maxim, H. S	Lights, systems and appliances	Sept. 5, 1882
264,951	Maxim, H. S	do	Sept. 26, 1882
264,952	Maxim, H. S	Batteries, secondary, applications	Sept. 26, 1882
269,805	Maxim, H. S	Regulators	Dec. 26, 1882
277,846	Maxim, H. S	Lights, systems and appliances	May 15, 1883
261,560	Mäyrhofer, C. A	Applications, tools and machines	July 25, 1882
269,593	Mäyrhofer, C. A	Telegraphs, fire	Dec. 26, 1882
278,159	Mäyrhofer, C. A	Clocks	May 22, 1883
263,554	McCabe, B., Swain, C. R. and Sutton, J. T	Lightning-arresters	Aug. 29, 1882
263,192	McCarty, N	Lights, arc	Aug. 22, 1882
267,553	McCarty, N	do	Nov. 14, 1882
266,176	McCausland, W. J	Telegraphs, printing	Oct. 17, 1882
270,907	McCausland, W. J	do	Jan. 23, 1883
269,082	McCollom, W. J	Applications, general	Dec. 12, 1882
278,351	McCoy, J. A	Telephonic telegraphs, systems	May 29, 1883
263,419	McCullough, L. H	Relays and sounders	Aug. 29, 1882
269,807	McCullough, L. H	Underground lines	Dec. 26, 1882
278,353	McElroy, W. J	Switches	May 29, 1883
269,439	McEvoy, C. A	Applications, general	Dec. 19, 1882
272,144	McGinnis, W. T	Applications, tools and machines	Feb. 13, 1883
261,370	McGlashan, C. F	Telegraphs, railway-car	July 18, 1882
278,811	McIntire, C	Conductors	June 5, 1883
264,096	McIntosh, L. D	Batteries, galvanic	Sept. 12, 1882
273,751	McIntosh, L. D	do	Mar. 13, 1883
277,765	McKenney, A	Conductors	May 15, 1883
265,972	McKinney, W. D	Telephonic telegraphs, systems	Oct. 17, 1882
268,038	McLaughlin, J	Lights, arc	Nov. 28, 1882
269,085	McLaughlin, J. K	Underground lines	Dec. 12, 1882
269,086	McLaughlin, J. K	do	Dec. 12, 1882
276,263	McLean, C. W	Switches	Apr. 24, 1883
274,212	McLellan, W. W	Railway-signals	Mar. 20, 1883
273,869	McMahon, W. and T. G	Underground lines	Mar. 13, 1883
270,325	McTighe, J. J. and T. J	Magneto-electric	Jan. 9, 1883
270,326	McTighe, T. J	Telephonic telegraphs, systems	Jan. 9, 1883
273,377	Means, C. J	Railway-signals	Mar. 6, 1883
276,190	Mehaffey, J. A	Underground lines	Apr. 24, 1883
265,621	Mershon, A. H	do	Oct. 10, 1882
274,213	Meyer, H. R	do	Mar. 20, 1883
270,457	Millar, A	Magneto-electric	Jan. 9, 1883
271,502	Millar, A	Motors	Jan. 30, 1883
262,811	Milliken, G. F	Telephonic telegraphs, magnetic	Aug. 15, 1882
266,043	Milliken, G. F	Telephonic telegraphs, electric	Oct. 17, 1882
269,092	Molera, E. J	Batteries, secondary, applications	Dec. 12, 1882
275,842	Molera, E. J. and Cebrian, J. C	Regulators	Apr. 17, 1883
278,355	Molera, E. J. and Cebrian, J. C	Lights, incandescent	May 29, 1883
263,938	Mondos, J. A	Lights, arc	Sept. 5, 1882
276,451	Monfort, E. A	Applications, general	Apr. 24, 1883
263,939	Monnier, D	Indicators	Sept. 5, 1882
262,971	Moore, E. R	Telegraphs, railway-car	Aug. 22, 1882
276,063	Morava, W	Magneto-electric	Apr. 17, 1883

No.	NAME.	CLASS.	DATE.
264,328	Morton, A. W	Lights, incandescent	Sept. 12, 1882
276,702	Moses, O. A	Lights, arc	May 1, 1883
276,703	Moses, O. A	do	May 1, 1883
276,704	Moses, O. A	do	May 1, 1883
276,705	Moses, O. A	do	May 1, 1883
262,459	Mott, G. S.	Telegraphs, duplex	Aug. 8, 1882
264,737	Mott, S. D	Lights, incandescent	Sept. 19, 1882
267,445	Mott, S. D	Meters	Nov. 14, 1882
267,446	Mott, S. D	Regulators	Nov. 14, 1882
260,600	Müller, H. J	Lights, incandescent	July 4, 1882
261,472	Müller, H. J	Lights, arc	July 18, 1882
265,853	Müller, H. J	Magneto-electric	Oct. 10, 1882
266,303	Müller, H. J	Lights, systems and appliances	Oct. 24, 1882
263,423	Munn, W. B.	Lightning-rods	Aug. 29, 1882
274,959	Murdock, G. J	Lights, systems and appliances	Apr. 3, 1883
275,510	Murdock, G. J	Lights, arc	Apr. 10, 1883
279,878	Muybridge, E. J	Applications, general	June 19, 1883
261,475	Neracher, W	Telegraphs, fire	July 18, 1882
268,523	Nesbitt, J	Regulators	Dec. 5, 1882
263,947	Neumeyer, H. F	Alarms, burglar	Sept. 5, 1882
262,093	Newbury, H. F	Magnetic-locks	Aug. 1, 1882
265,932	Newbury, H. F	do	Oct. 10, 1882
271,732	Nézeraux, C. P	Batteries, secondary	Feb. 6, 1883
271,903	Nichols, A. S.	Telephonic telegraphs, details	Feb. 6, 1883
263,801	Nichols, J. V	Lights, incandescent	Sept. 5, 1882
265,130	Nichols, J. V	Conductors	Sept. 26, 1882
266,187	Nichols, J. V	Lights, incandescent	Oct. 17, 1882
268,269	Nichols, J. V	do	Nov. 28, 1882
268,270	Nichols, J. V	do	Nov. 28, 1882
275,255	Nicholson, H. C	Railway-signals	Apr. 3, 1883
271,904	Nicolaisen, E	Motors	Feb. 6, 1883
280,324	Noble, J. E	Insulators	June 26, 1883
271,906	Nolf, A. L	Separators	Feb. 6, 1883
279,422	O'Beirne, E. J	Lights, systems and appliances	June 12, 1883
265,131	O'Bryon, C. H	Underground lines	Sept. 26, 1882
275,845	Odell, J. B	Batteries, galvanic	Apr. 17, 1883
277,053	Odell, J. B	Gas-lighting	May 8, 1883
267,577	O'Hara, G. W	Batteries, galvanic	Nov. 14, 1882
263,296	Olmsted, J	Lights, arc	Aug. 22, 1882
264,958	Olmsted, J	do	Sept. 26, 1882
279,103	Olmsted, J	do	June 5, 1883
278,357	Oram, J. M	Clocks	May 29, 1883
272,464	Orcutt, E. L	Railway-signals	Feb. 20, 1883
266,506	Osborne, E. F	Alarms	Oct. 24, 1882
265,858	Ott, J. F	Regulators	Oct. 10, 1882
265,859	Ott, J. F	do	Oct. 10, 1882
271,654	Ott, J. F	do	Feb. 6, 1883
269,225	Painter, W	Magneto-electric, hand-machines	Dec. 19, 1882
262,242	Palmer, A. C. and A. H.	Telegraphs, fire	Aug. 8, 1882
264,193	Palmer, A. H. and Rolfe, C. A.	do	Sept. 12, 1882
279,881	Palmer, G. E	Therapeutics, body-wear	June 19, 1883
262,105	Parcelle, A. L	Telephonic telegraphs, reed	Aug. 1, 1882
262,106	Parcelle, A. L	do	Aug. 1, 1882
274,023	Park, H. S	Car-brakes	Mar. 13, 1883
269,813	Parker, L. C	Applications, tools and machines	Dec. 26, 1882
279,977	Parker, S	Underground lines	June 26, 1883
269,453	Parker, W. S	Lights, arc	Dec. 19, 1882
269,454	Parkhurst, C. D	Batteries, galvanic	Dec. 19, 1882
280,077	Parks, J. A. and Sheffield, G. V	Telegraphs, printing	June 26, 1883
270,248	Parsons, A. S.	Car-brakes	Jan. 9, 1883
271,733	Patee, T. H. and Ridge, T. D	Lightning-rods	Feb. 6, 1883
262,110	Patterson, A	Batteries, thermal	Aug. 1, 1882
262,111	Patterson, A	do	Aug. 1, 1882
271,262	Patterson, W. R	Conductors	Jan. 30, 1883
273,592	Patterson, W. R	Underground lines	Mar. 6, 1883
273,593	Patterson, W. R	Conductors	Mar. 6, 1883
277,335	Patterson, W. R	Underground lines	May 8, 1883
279,274	Patterson, W. R	Connectors	June 12, 1883
264,475	Paul, G. D. and Kampfe, F. A.	Car-brakes	Sept. 19, 1882
260,408	Peck, C. C. and Chapman, W. H.	Motors	July 4, 1882
267,710	Peck, C. C. and Chapman, W. H.	do	Nov. 21, 1882
267,711	Peck, C. C. and Chapman, W. H.	Switches	Nov. 21, 1882
269,318	Peck, C. C. and Chapman, W. H.	Motors	Dec. 19, 1882
276,274	Peck, C. C. and Chapman, W. H.	Magneto-electric	Apr. 24, 1883
276,275	Peck, C. C. and Chapman, W. H.	do	Apr. 24, 1883
279,007	Peck, C. C. and Chapman, W. H.	Motors	June 5, 1883
279,008	Peck, C. C. and Chapman, W. H.	do	June 5, 1883

No.	NAME.	CLASS.	DATE.
274,652	Perez, P. E.	Telegraphs, automatic	Mar. 27, 1883
262,470	Perkins, C. G.	Lights, incandescent	Aug. 8, 1882
274,370	Perkins, C. G.	Lights, arc	Mar. 20, 1883
274,371	Perkins, C. G.	Regulators	Mar. 20, 1883
274,653	Perkins, C. G.	Lights, systems and appliances	Mar. 27, 1883
274,654	Perkins, C. G.	Lights, incandescent	Mar. 27, 1883
271,913	Perrin, T. J.	Telephonic telegraphs, systems	Feb. 6, 1883
271,914	Perrin, T. J.	do	Feb. 6, 1883
273,887	Petrequin, L.	Telegraph-poles	Mar. 13, 1883
267,366	Phelps, G. M.	Telegraphs, printing	Nov. 14, 1882
274,818	Philips, W. J. and Kitson, G. L.	Underground lines	Mar. 27, 1883
275,407	Philips, W. J. and Kitson, G. L.	Conductors	Apr. 10, 1883
275,408	Philips, W. J. and Kitson, G. L.	do	Apr. 10, 1883
273,888	Piette, L. and Krizik, F.	Lights, arc	Mar. 13, 1883
263,353	Piot, D. T.	Motors	Aug. 29, 1882
265,861	Pitkin, J.	Batteries, secondary	Oct. 10, 1882
274,373	Pitkin, J.	do	Mar. 20, 1883
273,305	Plankinton, W.	Underground lines	Mar. 6, 1883
273,598	Platt, W. S.	Batteries, galvanic	Mar. 6, 1883
264,961	Plush, S. M. and Phelps, W. P.	Telegraphs, printing	Sept. 26, 1882
266,515	Pond, C. L.	Telephonic telegraphs, mechanical	Oct. 24, 1882
267,929	Pope, F. L.	Morse registers	Nov. 21, 1882
275,701	Popp, V.	Clocks	Apr. 10, 1883
261,172	Porter, H. B.	Bells	July 18, 1882
269,879	Porter, H. B.	Telephonic telegraphs, electric	Jan. 2, 1883
264,843	Prentice, W. H. and Beckwith, S. H.	Telephonic telegraphs, calls	Sept. 19, 1882
269,321	Prosch, C.	Keys	Dec. 19, 1882
276,465	Provoost, J. M.	Annunciators	Apr. 24, 1883
265,340	Puffer, S. M.	Batteries, secondary, applications	Oct. 3, 1882
270,478	Pumphrey, H. F.	Connectors	Jan. 9, 1883
261,174	Quigley, W. D. G.	Telephonic telegraphs, mechanical	July 18, 1882
273,309	Rae, J.	Separators	Mar. 6, 1883
270,556	Randall, C. A.	Telephonic telegraphs, systems	Jan. 9, 1883
271,513	Randall, C. A.	do	Jan. 30, 1883
266,518	Ransom, G. F.	Recorders	Oct. 24, 1882
271,739	Reed, A.	Lights, systems and appliances	Feb. 6, 1883
276,880	Reed, T. S.	Conductors	May 1, 1883
269,960	Reeve, T.	Thermostats	Jan. 2, 1883
265,147	Register, H. C.	Underground lines	Sept. 26, 1882
274,821	Reiff, W. H.	Insulators	Mar. 27, 1883
265,866	Reissig, W.	Thermostats	Oct. 10, 1882
271,271	Rhoades, L.	Magnetic-locks	Jan. 30, 1883
261,043	Rhodes, T. H.	Gas-lighting	July 11, 1882
276,285	Rhodes, T. H.	do	Apr. 24, 1883
276,286	Rhodes, T. H.	Alarms	Apr. 24, 1883
277,610	Rhodes, T. H.	Gas-lighting	May 15, 1883
270,125	Richards, J. E.	Recorders	Jan. 2, 1883
279,811	Richter, C.	Lights, incandescent	June 19, 1883
267,458	Rider, A. K.	Applications, tools and machines	Nov. 14, 1882
263,536	Rittenhouse, N. M.	Underground lines	Aug. 29, 1882
272,774	Rittenhouse, N. M.	Conductors	Feb. 20, 1883
276,472	Rittenhouse, N. M. and Locke, M. W.	Underground lines	Apr. 24, 1883
276,078	Rittig, J.	Therapeutics, body-wear	Apr. 17, 1883
276,194	Roberts, H.	Magneto-electric	Apr. 24, 1883
275,859	Robertson, J.	Conductors	Apr. 17, 1883
276,630	Robertson, J. H.	Telephonic telegraphs, electric	May 1, 1883
276,631	Robertson, J. H.	do	May 1, 1883
276,632	Robertson, J. H.	do	May 1, 1883
267,259	Robinson, W.	Railway-signals	Nov. 7, 1882
268,294	Rogers, J. H.	Telephonic telegraphs, systems	Nov. 28, 1882
269,326	Rogers, J. H.	Telephonic telegraphs, relays and repeaters	Dec. 19, 1882
269,884	Rogers, J. H.	Telephonic telegraphs, magnetic	Jan. 2, 1883
277,349	Rogers, J. H.	Telegraphs, automatic	May 8, 1883
279,189	Rogers, J. W.	Conductors	June 12, 1883
278,277	Root, H. C. and Reilly, J. C.	do	May 22, 1883
272,329	Rose, A. W. and Cheever, C. A.	Telephonic telegraphs, magnetic	Feb. 13, 1883
271,991	Rosebrook, F.	Applications, general	Feb. 6, 1883
270,848	Rosebrugh, A. M.	Telephonic telegraphs, mechanical	Jan. 16, 1883
271,992	Rosebrugh, A. M.	Batteries, galvanic	Feb. 6, 1883
277,945	Rosquist, G.	Applications, general	May 22, 1883
279,107	Rousseau, D.	Circuit-closers	June 5, 1883
267,987	Ruebel, C. A. E.	Alarms, burglar	Nov. 21, 1882
271,131	Ruebel, C. A. E.	do	Jan. 23, 1883
272,904	Russell, C. S.	Therapeutics, body-wear	Feb. 27, 1883
262,248	Salisbury, E. W.	Telephonic telegraphs, systems	Aug. 8, 1882
276,891	Sanderson, J. G.	Conductors	May 1, 1883
265,448	Sawyer, W. E.	Applications, tools and machines	Oct. 3, 1882

No.	NAME.	CLASS.	DATE.
267,597	Sawyer, W. H	Conductors	Nov. 14, 1882
269,328	Sawyer, W. H	do	Dec. 19, 1882
269,470	Sawyer, W. H	do	Dec. 19, 1882
279,023	Sawyer, W. H	Circuit-closers	June 5, 1883
267,263	Scheeffler, G. A	Magneto-electric	Nov. 7, 1882
261,567	Schoettel, E. A	Telegraphs, printing	July 25, 1882
271,924	Schoettel, E. A	Telephonic telegraphs, electric	Feb. 6, 1883
266,210	Schooley, W. D	Gas-lighting	Oct. 17, 1882
269,331	Schreiber, A. E	Motors	Dec. 19, 1882
261,390	Schuyler, D. A	Magneto-electric	July 18, 1882
266,904	Scott, C. A	Railway-signals	Oct. 31, 1882
274,665	Scott, G. B	Telegraphs, printing	Mar. 27, 1883
262,700	Scribner, C. E	Telephonic telegraphs, electric	Aug. 15, 1882
262,701	Scribner, C. E	Telephonic telegraphs, systems	Aug. 15, 1882
264,109	Scribner, C. E	Bells	Sept. 12, 1882
266,319	Scribner, C. E	Telephonic telegraphs, systems	Oct. 24, 1882
266,320	Scribner, C. E	do	Oct. 24, 1882
266,321	Scribner, C. E	do	Oct. 24, 1882
271,279	Scribner, C. E	do	Jan. 30, 1883
271,280	Scribner, C. E	do	Jan. 30, 1883
275,420	Scribner, C. E	do	Apr. 10, 1883
278,367	Scribner, C. E	do	May 29, 1883
270,702	Scrivano, G	Batteries, galvanic	Jan. 16, 1883
264,346	Sedlacek, H., Wikulill, F. and Schuckert, S.	Lights, arc	Sept. 12, 1882
267,025	See, J. W	Therapeutics, electrodes	Nov. 7, 1882
268,045	See, J. W	Recorders	Nov. 28, 1882
271,928	Seeley, C. A	Magneto-electric	Feb. 6, 1883
277,069	Seeley, C. A	do	May 8, 1883
269,124	Seiler, P	Transmitters	Dec. 12, 1882
270,990	Selden, C	Telegraphs, quadruplex	Jan. 23, 1883
261,260	Seymour, H. A	Lights, systems and appliances	July 18, 1882
261,261	Seymour, H. A	Lights, incandescent	July 18, 1882
261,262	Seymour, H. A	Lights, systems and appliances	July 18, 1882
261,263	Seymour, H. A	Lights, incandescent	July 18, 1882
261,264	Seymour, H. A	do	July 18, 1882
261,265	Seymour, H. A	Lights, systems and appliances	July 18, 1882
270,491	Seymour, H. A	Lights, arc	Jan. 9, 1883
276,904	Shaffer, W. C	Railway-signals	May 1, 1883
261,772	Shaffer, W. C. and Plush, S. M	Telegraphs, fire	July 25, 1882
266,056	Shaver, G. F	Telephonic telegraphs, systems	Oct. 17, 1882
278,750	Shaver, G. F	Telephonic telegraphs, mechanical	June 5, 1883
268,554	Shaw, F	Telephonic telegraphs, systems	Dec. 5, 1882
278,613	Shaw, F. and Childs, W. A	do	May 29, 1883
277,358	Shaw, F. A. and Judkins, H. E	Telegraphs, railway-car	May 8, 1883
263,973	Shaw, F. R	Telephonic telegraphs, mechanical	Sept. 5, 1882
270,136	Shaw, G. E	Telephonic telegraphs, electric	Jan. 2, 1883
276,723	Shaw, G. E	Telephonic telegraphs, magnetic	May 1, 1883
264,348	Shaw, T	Keys	Sept. 12, 1882
266,262	Shaw, W. A	Batteries, secondary	Oct. 17, 1882
271,140	Shaw, W. A	Lights, incandescent	Jan. 23, 1883
277,166	Shedlock, A	Lights, arc	May 8, 1883
277,167	Shedlock, A	do	May 8, 1883
277,168	Shedlock, A	Lights, systems and appliances	May 8, 1883
264,777	Sheehy, R. J	do	Sept. 19, 1882
279,824	Sheehy, R. J	Lights, arc	June 19, 1883
279,825	Sheehy, R. J	do	June 19, 1883
279,826	Sheehy, R. J	Regulators	June 19, 1883
275,422	Shelbourne, S. F	Conductors	Apr. 10, 1883
275,423	Shelbourne, S. F	Underground lines	Apr. 10, 1883
275,424	Shelbourne, S. F	do	Apr. 10, 1883
275,425	Shelbourne, S. F	do	Apr. 10, 1883
262,136	Sheridan, H. B	Magneto-electric	Aug. 1, 1882
269,238	Shiras, J. O. and Eekert, E. A	Telephonic telegraphs, systems	Dec. 19, 1882
279,193	Shoupe, W. S. and Baskirk, T.	Alarms, burglar	June 12, 1883
276,486	Shrieves, C. D. and Cook, J. E	Underground lines	Apr. 24, 1883
264,780	Siemens, E. W	Magneto-electric	Sept. 19, 1882
269,888	Silvey, W. L	Motors	Jan. 2, 1883
267,609	Slafter, C. J	Conductors	Nov. 14, 1882
269,239	Slattery, M. M. M	Lights, incandescent	Dec. 19, 1882
274,522	Sloan, A	Underground lines	Mar. 27, 1883
273,622	Smith, A. T	Applications, general	Mar. 6, 1883
267,115	Smith, C. D. F	Lights, systems and appliances	Nov. 7, 1882
276,724	Smith, J. J. C	Conductors	May 1, 1883
276,725	Smith, J. J. C	do	May 1, 1883
277,519	Smith, J. J. C	do	May 15, 1883
276,916	Smith, W	do	May 1, 1883
277,366	Smith, W	do	May 8, 1883

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268,561	Smithers, J. P.	Repeaters	Dec. 5, 1882
276,087	Smithers, J. P.	Relays and sounders	Apr. 17, 1883
279,670	Smithers, J. P.	Repeaters	June 19, 1883
278,753	Smyth, T. A.	Conductors	June 5, 1883
269,130	Snell, F. H.	Telephonic telegraphs, systems	Dec. 12, 1882
262,252	Southworth, H. W.	Telephonic telegraphs, calls	Aug. 8, 1882
267,945	Southworth, H. W.	do	Nov. 21, 1882
273,179	Spang, H. W.	Lightning-rods	Feb. 27, 1883
279,036	Spang, H. W.	Motors	June 5, 1883
269,735	Speicher, J.	Conductors	Dec. 26, 1882
261,965	Sperry, E. A.	Magneto-electric	Aug. 1, 1882
263,956	Sperry, E. A.	Regulators	Dec. 12, 1882
265,454	Stabler, J. P.	Telephonic telegraphs, calls	Oct. 3, 1882
265,455	Stabler, J. P.	do	Oct. 3, 1882
265,456	Stabler, J. P.	do	Oct. 3, 1882
269,132	Stanley, W., jr.	Lights, incandescent	Dec. 12, 1882
269,133	Stanley, W., jr.	Lights, systems and appliances	Dec. 12, 1882
260,623	Starr, E. T.	Regulators	July 4, 1882
266,910	Starr, E. T.	Rheostats	Oct. 31, 1882
266,911	Starr, E. T.	do	Oct. 31, 1882
267,275	Starr, E. T.	Batteries, secondary	Nov. 7, 1882
267,804	Starr, E. T.	do	Nov. 21, 1882
269,476	Starr, E. T.	Batteries, secondary, applications	Dec. 19, 1882
279,839	Starr, E. T.	Batteries, secondary	June 19, 1883
268,308	Starr, E. T. and E. E.	do	Nov. 28, 1882
276,300	Starr, E. T. and E. E.	do	Apr. 24, 1883
276,301	Starr, E. T. and E. E.	do	Apr. 24, 1883
260,624	Starr, E. T. and Peyton, W. J.	Batteries, secondary, applications	July 4, 1882
261,490	Starr, E. T. and Peyton, W. J.	do	July 18, 1882
270,500	Stearns, J. M., jr.	do	Jan. 9, 1883
268,746	Stebbins, J. K.	Telephonic telegraphs, mechanical	Dec. 5, 1882
272,493	Stebbins, J. M.	Batteries, galvanic	Feb. 20, 1883
275,433	Stevens, E. G.	Keys	Apr. 10, 1883
271,994	Steward, D. M.	Conductors	Feb. 6, 1883
266,549	Stieringer, L.	Lights, systems and appliances	Oct. 24, 1882
266,550	Stieringer, L.	do	Oct. 24, 1882
272,169	Stieringer, L.	do	Feb. 13, 1883
278,465	Stieringer, L.	do	May 29, 1883
265,344	Stitzel, F.	Applications, general	Oct. 3, 1882
272,099	Strack, C. F.	Railway-signals	Feb. 13, 1883
262,499	Strohm, S. D.	Underground lines	Aug. 8, 1882
266,916	Strohm, S. D.	do	Oct. 31, 1882
267,278	Strohm, S. D.	Conductors	Nov. 7, 1882
267,279	Strohm, S. D.	do	Nov. 7, 1882
272,792	Strohm, S. D.	do	Feb. 20, 1883
277,374	Strohm, S. D.	Underground lines	May 8, 1883
278,289	Strohm, S. D.	Conductors	May 22, 1883
277,628	Sullivan, M.	Magnetic-locks	May 15, 1883
263,621	Swan, A.	Lights, incandescent	Aug. 29, 1882
263,622	Swan, A.	Lights, systems and appliances	Aug. 29, 1882
263,623	Swan, A.	do	Aug. 29, 1882
264,970	Swan, A.	do	Sept. 26, 1882
275,730	Swan, A.	Lights, incandescent	Apr. 10, 1883
276,924	Swan, A.	do	May 1, 1883
276,932	Swan, A.	Lights, systems and appliances	May 1, 1883
274,150	Swan, F. A. and Bosworth, C. B.	do	Mar. 20, 1883
274,151	Swan, F. A. and Bosworth, C. B.	do	Mar. 20, 1883
272,100	Sweet, D. F.	Clocks	Feb. 13, 1883
273,634	Sweet, D. F.	do	Mar. 6, 1883
278,627	Taaffe, F. X. and Koyl, C. H.	Underground lines	May 29, 1883
265,290	Tabourin, G. A.	Regulators	Oct. 3, 1882
277,377	Tacy, S. H.	Lights, systems and appliances	May 8, 1883
267,807	Tanner, F.	Annunciators	Nov. 21, 1882
263,627	Thayer, R.	Underground lines	Aug. 29, 1882
272,391	Thiollier, A.	Separators	Feb. 13, 1883
271,750	Thomas, J. D.	Conductors	Feb. 6, 1883
273,324	Thomas, J. M.	Electrolysis	Mar. 6, 1883
263,246	Thomas, W. M.	Lights, arc	Aug. 22, 1882
263,247	Thomas, W. M.	do	Aug. 22, 1882
278,293	Thomas, W. M.	do	May 22, 1883
279,045	Thomas, W. M.	Motors	June 5, 1883
261,788	Thompson, B.	Telegraphs, duplex	July 25, 1882
264,372	Thompson, B.	do	Sept. 12, 1882
265,645	Thompson, B.	Telegraphs, multiplex	Oct. 10, 1882
268,317	Thompson, B.	Telegraphs, duplex	Nov. 28, 1882
274,845	Thompson, F. H.	Conductors	Mar. 27, 1883
280,337	Thompson, R. H. S.	Lights, incandescent	June 26, 1883

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261,067	Thomson, E	Lights, arc	July 11, 1882
261,790	Thomson, E	do	July 25, 1882
265,936	Thomson, E	Magneto-electric	Oct. 10, 1882
265,937	Thomson, E	Regulators	Oct. 10, 1882
265,993	Thomson, E	Lights, arc	Oct. 17, 1882
269,605	Thomson, E	Magneto-electric	Dec. 26, 1882
269,606	Thomson, E	Regulators	Dec. 26, 1882
271,947	Thomson, E	Magneto-electric	Feb. 6, 1883
271,948	Thomson, E	Regulators	Feb. 6, 1883
272,353	Thomson, E	Lights, arc	Feb. 13, 1883
272,920	Thomson, E	do	Feb. 27, 1883
273,406	Thomson, E	Magneto-electric	Mar. 6, 1883
274,413	Thomson, E	Lights, arc	Mar. 20, 1883
275,289	Thomson, E	Lightning-arresters	Apr. 3, 1883
275,290	Thomson, E	do	Apr. 3, 1883
261,969	Throop, C. E	Telephonic telegraphs, systems	Aug. 1, 1882
274,852	Thurber, E. S.	Applications, general	Mar. 27, 1883
278,832	Tihon, P.	Lights, arc	June 5, 1883
268,316	Tipton, A. W.	Therapeutics, electrodes	Nov. 28, 1882
260,804	Tirrell, J. P.	Gas-lighting	July 11, 1882
260,805	Tirrell, J. P.	do	July 11, 1882
260,806	Tirrell, J. P.	do	July 11, 1882
262,260	Tirrell, J. P.	do	Aug. 8, 1882
273,639	Tisdale, C. D.	Railway-signals	Mar. 6, 1883
279,046	Tomkins, C. T.	Batteries, secondary	June 5, 1883
272,355	Tomlinson, B. W. and Balch, A.	Applications, tools and machines	Feb. 13, 1883
276,935	Torrey, D.	Car-brakes	May 1, 1883
276,936	Torrey, D.	do	May 1, 1883
276,938	Torrey, D.	do	May 1, 1883
278,635	Townsend, W. E., jr.	Conductors	May 29, 1883
269,139	Trenholm, W. L.	Lights, systems and appliances	Dec. 12, 1882
271,548	Trott, S. and Hamilton, F. A.	Conductors	Jan. 30, 1883
265,720	Trott, S. and Kingsford, H.	do	Oct. 10, 1882
273,643	Trouvelot, G. H. E.	Induction-coils	Mar. 6, 1883
272,799	Tucker, R. H.	Regulators	Feb. 20, 1883
275,440	Turner, T. G.	Lights, arc	Apr. 10, 1883
261,186	Vail, T. N.	Telephonic telegraphs, systems	July 18, 1882
261,187	Vail, T. N.	do	July 18, 1882
262,630	Vail, T. N.	Underground lines	Aug. 15, 1882
274,857	Vail, T. N.	Telephonic telegraphs, systems	Mar. 27, 1883
275,296	Vail, T. N.	do	Apr. 3, 1883
279,289	Vail, T. N.	Conductors	June 12, 1883
262,261	Vaille, F. O.	Telephonic telegraphs, systems	Aug. 8, 1882
268,155	Van Choate, S. F.	Lights, arc	Nov. 28, 1882
274,997	Van Choate, S. F.	do	Apr. 3, 1883
261,280	Van Depoele, C. J.	do	July 18, 1882
262,333	Van Depoele, C. J.	do	Aug. 8, 1882
266,735	Van Depoele, C. J.	Induction-coils	Oct. 31, 1882
270,352	Van Depoele, C. J.	Regulators	Jan. 9, 1883
275,549	Van Depoele, C. J.	Magneto-electric	Apr. 10, 1883
276,099	Van Depoele, C. J.	Batteries, secondary	Apr. 17, 1883
270,518	Vander Weyde, P. H.	Magneto-electric	Jan. 9, 1883
261,410	Van Hoevenbergh, H.	Telegraphs	July 18, 1882
274,416	Van Hoevenbergh, H.	Telegraphs, printing	Mar. 20, 1883
274,417	Van Hoevenbergh, H.	Telegraphs, dynamo	Mar. 20, 1883
272,803	Vankeerberghen, V.	Telegraphs, fire	Feb. 20, 1883
277,087	Varley, C. F.	Applications, tools and machines	May 8, 1883
278,976	Viger, J. La B.	Separators	June 5, 1883
261,503	Voelker, W. L.	Lights, incandescent	July 18, 1882
263,257	Voelker, W. L.	do	Aug. 22, 1882
267,287	Waldo, L.	Circuit-closers	Nov. 7, 1882
279,292	Waldorp, J. H. M.	Recorders	June 12, 1883
261,189	Walker, N. U.	Underground lines	July 18, 1882
274,865	Wallace, S. J.	Batteries, secondary	Mar. 27, 1883
278,638	Wallace, W.	do	May 29, 1883
267,046	Waring, R. S.	Conductors	Nov. 7, 1882
268,059	Waring, R. S.	Underground lines	Nov. 28, 1882
268,060	Waring, R. S.	Conductors	Nov. 28, 1882
268,157	Waring, R. S.	do	Nov. 28, 1882
268,158	Waring, R. S.	Underground lines	Nov. 28, 1882
268,159	Waring, R. S.	Conductors	Nov. 28, 1882
268,324	Waring, R. S.	do	Nov. 28, 1882
267,044	Waring, R. S. and Hyde, J. B.	do	Nov. 7, 1882
267,045	Waring, R. S. and Hyde, J. B.	do	Nov. 7, 1882
266,405	Warner, J. C.	Annunciators	Oct. 24, 1882
273,648	Warner, J. C.	Connectors	Mar. 6, 1883
272,004	Warreu, H. J.	Gas-lighting	Feb. 6, 1883

No.	NAME.	CLASS.	DATE.
266,234	Waterhouse, A. G.	Lights, systems and appliances	Oct. 17, 1882
266,235	Waterhouse, A. G.	Magneto-electric	Oct. 17, 1882
266,236	Waterhouse, A. G.	Lights, arc	Oct. 17, 1882
271,169	Waterhouse, A. G.	Magneto-electric	Jan. 23, 1883
274,999	Waterhouse, F. G.	Lights, arc	Apr. 3, 1883
265,475	Waters, S.	Lights, incandescent	Oct. 3, 1882
271,958	Waters, W. T.	Telegraphs, railway-car	Feb. 6, 1883
262,164	Watson, J. E.	Lights, arc	Aug. 1, 1882
262,165	Watson, J. E.	do	Aug. 1, 1882
265,897	Watson, T. A.	Telephonic telegraphs, systems	Oct. 10, 1882
266,567	Watson, T. A.	Telephonic telegraphs, magnetic	Oct. 24, 1882
267,387	Watson, T. A.	Telephonic telegraphs, systems	Nov. 14, 1882
270,522	Watson, T. A.	do	Jan. 9, 1883
280,266	Watson, T. A.	do	June 26, 1883
260,718	Weakley, J. W., jr.	Therapeutics, electrodes	July 4, 1882
276,739	Weaver, G. L.	Annunciators	May 1, 1883
274,424	Webb, B. W.	Recorders	Mar. 20, 1883
274,067	Weeks, A.	Boat-steering	Mar. 13, 1883
277,089	Weiller, L.	Conductors	May 8, 1883
277,390	Weis, J.	Railway-signals	May 8, 1883
277,965	Wells, J. O.	Thermostats	May 22, 1883
270,867	Westinghouse, G., jr.	Railway-signals	Jan. 16, 1883
263,827	Weston, E.	Lights, systems and appliances	Sept. 5, 1882
263,828	Weston, E.	do	Sept. 5, 1882
263,829	Weston, E.	do	Sept. 5, 1882
263,830	Weston, E.	do	Sept. 5, 1882
264,006	Weston, E.	Lights, arc	Sept. 5, 1882
264,978	Weston, E.	do	Sept. 26, 1882
264,979	Weston, E.	Regulators	Sept. 26, 1882
264,980	Weston, E.	do	Sept. 26, 1882
264,981	Weston, E.	do	Sept. 26, 1882
264,982	Weston, E.	Motors	Sept. 26, 1882
264,983	Weston, E.	do	Sept. 26, 1882
264,984	Weston, E.	Lights, arc	Sept. 26, 1882
264,985	Weston, E.	Lights, incandescent	Sept. 26, 1882
264,986	Weston, E.	do	Sept. 26, 1882
264,987	Weston, E.	do	Sept. 26, 1882
264,988	Weston, E.	do	Sept. 26, 1882
266,239	Weston, E.	Regulators	Oct. 17, 1882
266,240	Weston, E.	Lights, arc	Oct. 17, 1882
266,241	Weston, E.	Lights, systems and appliances	Oct. 17, 1882
266,242	Weston, E.	Lights, arc	Oct. 17, 1882
266,243	Weston, E.	Magneto-electric	Oct. 17, 1882
266,244	Weston, E.	Indicators	Oct. 17, 1882
266,739	Weston, E.	Lights, arc	Oct. 31, 1882
266,740	Weston, E.	Magneto-electric	Oct. 31, 1882
266,741	Weston, E.	Lights, incandescent	Oct. 31, 1882
267,474	Weston, E.	Lights, arc	Nov. 14, 1882
268,329	Weston, E.	Lights, incandescent	Nov. 28, 1882
268,330	Weston, E.	do	Nov. 28, 1882
268,331	Weston, E.	Magneto-electric	Nov. 28, 1882
269,757	Weston, E.	Lights, incandescent	Dec. 26, 1882
269,758	Weston, E.	Lights, systems and appliances	Dec. 26, 1882
269,759	Weston, E.	Lights, incandescent	Dec. 26, 1882
269,760	Weston, E.	Rheostats	Dec. 26, 1882
269,761	Weston, E.	Magneto-electric	Dec. 26, 1882
271,171	Weston, E.	Lights, incandescent	Jan. 23, 1883
271,172	Weston, E.	Lights, arc	Jan. 23, 1883
271,173	Weston, E.	do	Jan. 23, 1883
272,362	Weston, E.	Regulators	Feb. 13, 1883
272,363	Weston, E.	do	Feb. 13, 1883
272,364	Weston, E.	do	Feb. 13, 1883
272,365	Weston, E.	do	Feb. 13, 1883
272,366	Weston, E.	Magneto-electric	Feb. 13, 1883
272,367	Weston, E.	Lights, arc	Feb. 13, 1883
273,329	Weston, E.	Regulators	Mar. 6, 1883
274,427	Weston, E.	Lights, incandescent	Mar. 20, 1883
277,179	Weston, E.	Indicators	May 8, 1883
277,640	Weston, E.	Switches	May 15, 1883
277,641	Weston, E.	Lights, systems and appliances	May 15, 1883
277,642	Weston, E.	do	May 15, 1883
277,643	Weston, E.	do	May 15, 1883
277,644	Weston, E.	Magneto-electric	May 15, 1883
277,645	Weston, E.	Lights, incandescent	May 15, 1883
277,646	Weston, E.	do	May 15, 1883
278,640	Weston, E.	Regulators	May 29, 1883
278,641	Weston, E.	Magneto-electric	May 29, 1883

No.	NAME.	CLASS.	DATE.
278,642	Weston, E -----	Lights, systems and appliances -----	May 29, 1883
272,811	Wetmore, J. A -----	Lights, arc -----	Feb. 20, 1883
273,208	Wheeler, S. S -----	Applications, general -----	Feb. 27, 1883
271,175	Wheeler, S. S., Curtis, C. G. and Crocker, F. B. -----	Motors -----	Jan. 23, 1883
265,292	Wheeler, W -----	Lights, systems and appliances -----	Oct. 3, 1882
277,394	Whitney, E. R -----	Batteries, secondary -----	May 8, 1883
261,286	Willard, S. W -----	Applications, tools and machines -----	July 18, 1882
267,298	Willson, R. W -----	Clocks -----	Nov. 7, 1882
267,299	Willson, R. W -----	do -----	Nov. 7, 1882
267,300	Willson, R. W -----	do -----	Nov. 7, 1882
270,533	Willson, R. W -----	do -----	Jan. 9, 1883
271,560	Willson, R. W -----	Circuit-closers -----	Jan. 30, 1883
275,310	Wilson, E. L -----	Telephonic telegraphs, electric -----	Apr. 3, 1883
279,471	Wilson, E. M -----	Telephonic telegraphs, systems -----	June 12, 1883
279,065	Wilson, J. C -----	Transmitters -----	June 5, 1883
265,353	Wirsching, A -----	Telegraphs, printing -----	Oct. 3, 1882
272,505	Woelk, E. A -----	Telephonic telegraphs, systems -----	Feb. 20, 1883
275,005	Wood, F. B -----	Telegraphs, fire -----	Apr. 3, 1883
275,006	Wood, F. B -----	do -----	Apr. 3, 1883
261,288	Wood, J. J -----	Magneto-electric -----	July 18, 1882
261,289	Wood, J. J -----	Lights, arc -----	July 18, 1882
262,529	Wood, J. J -----	Magneto-electric -----	Aug. 8, 1882
279,472	Wood, J. J -----	Lights, arc -----	June 12, 1883
279,512	Wood, J. J -----	do -----	June 12, 1883
274,074	Woodbury, C. J. H -----	Magneto-electric, hand-machines -----	Mar. 13, 1883
274,075	Woodworth, R. D -----	Telephonic telegraphs, electric -----	Mar. 13, 1883
269,151	Woolley, L. G -----	Lights, arc -----	Dec. 12, 1882
277,528	Wright, A -----	Conductors -----	May 15, 1883
262,718	Young, G. S. and Hatton, R. J -----	Lights, arc -----	Aug. 15, 1882
267,816	Zalinski, E. L -----	Electrolysis -----	Nov. 21, 1882

## REISSUES.

10,193	D'Infreville, G -----	Telegraphs, duplex, reissue of 238,094 -----	Sept. 5, 1882
10,232	Finney, J. R -----	Telegraphs, railway-car, reissue of 231,552 --	Nov. 7, 1882
10,183	Lockwood, R. M. and Bartlett, S. H -----	Telephonic telegraphs, electric, reissue of 228,826 -----	Aug. 15, 1882
10,290	Parker, L. C -----	Applications, tools and machines, reissue of 269,813 -----	Feb. 20, 1883
10,344	Steward, D. M -----	Insulators, reissue of 271,994 -----	June 19, 1883
10,299	Weston, E -----	Lights, incandescent, reissue of 263,828 -----	Mar. 27, 1883





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